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<210> 5657

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5657

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 ctcataaaca gagactgaga ggctctaact ttcttncgtt atgtgaagag taagaacnag 480
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<210> 5658

<211> 577

<212> DNA

<213> Homo sapiens

<400> 5658

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 tccatttctc taaaagctac aaatgaaact cttcttatga gtaaaaagta ctaacccaaa 480
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<210> 5659

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5659

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 aggttcatgt ttttatagtt cattttgatt tttcattttc catccctgat ctttagagaa 180
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<210> 5660

<211> 573

<212> DNA

<213> Homo sapiens

<400> 5660

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gcacccttct aaagggcttt caaggatcat cctaatagcc cattttacct atgtactgac  180
cttggaagct aacccttgag tatgatgcaa ctccactcta atgtaaatta aaatgccatg  240
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taccaaagtc gatcagtcctc agtatgattc anggatatga ttttcaatta gcaaattggtg  480
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<210> 5661

<211> 575

<212> DNA

<213> Homo sapiens

<400> 5661

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cttaggacat aaaggcttac actgggacat gaagtagtaa gacacaatcc actgactatt  180
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gtgtgtgtgt gtgtgtatag acacgtcctc tttcagtaga acataaactc tgaagatgag  300
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aaaaaaatgg aagttctcaa ggcccagttg ctggtgtctc tttgaggcc ccaaaacttg 420
gttgatttat cttattggca ctctgcatga aatcaagagt aggctcaaag gcaagcctta 480
tctcctgnga acacaattcc tacagggtctn aactcaatat ttaaatttng ttgggacctg 540
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<210> 5662

<211> 483

<212> DNA

<213> Homo sapiens

<400> 5662

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gcgtgtcctc agctgggctg caacctctgc ctcccgggtt caagcgactg tcccatccag 180
cctcccgagt acctgggact acagggtcag gccaccacac cgggctaatt ttgtttat 240
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ccanagtagc ttccaataaa ctctntttgc actgtacttt ncgactcgnc ttgaattcct 420
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aag 483

<210> 5663

<211> 586

<212> DNA

<213> Homo sapiens

<400> 5663

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tcacaaatta aaaatatatt tctccatgtg gtaaaagtgc tttcaatccc attaaagggc 180
 acagcaaggg tgttttgaaa cacgatctga aatttggcct gcaatccgtg gcatcgattc 240
 caaccacagg gcgggggagt caccatgata tagagcacag gagccacgtg gggcccggag 300
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 taatcccaga aattccttgt ttctggtctg tggggatggt cagatctgcc caccactctt 480
 ggcacccgan gcttncctgg agacgcatna acctgggntg ggaaagtgcc canatcttgc 540
 tgggggaaca caaccttcgt tgccatgccg gcaccagcc tttcnt 586

<210> 5664

<211> 587

<212> DNA

<213> Homo sapiens

<400> 5664

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 ttactgggtt attccaaact ttcaaagaac agcctctcag tggactttc tatccatcac 180
 acaacatgac acaaagactt catttaataa ggtagcaca gctgttaata tcaaagcca 240
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 aaccttttga attcaggacc ctgcctatct actccatgga gcagatcttt ggattctctt 480
 ttccactcct aagggtttgc ctaggatctc tctatggngc agaatacccc ctagcaccgc 540
 aattggggaa taggcttaac ctignatnat catctgaatc ccagcat 587

<210> 5665

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5665

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tttgtatddd aagtagagac ggggtttcac catgttggcc aggctggtct tgaattcctg  180
acctcaagtg atccactgng ctcgccaga attatgtaga atttctaatt gaacaaaagg  240
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acatattcat tcattctaac gtatgacaaa aacgctagca gatcaagtat gtatgcctat  420
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gccattggtc tttggggnea acangtntg acatcccttg gggcaccttc cccttgactt  540
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<210> 5666

<211> 586

<212> DNA

<213> Homo sapiens

<400> 5666

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ttacatgctt cgccctccgc cccctgcccc aatcaaaaat gatacaacca agttttggtc  180
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tttcagaatt gtcttatccc tatgatacat ccatttgtac ttctatatcc cacttttaggt  360
aattaggttt tagagcccac aggaatcaca attcacatgc tgttgctaag ttctgtgcca  420
ttaagccaaa attgctatct accaaagtat ttaagtcctt atgaagagta ttccaagggt  480
ttcatgcaat gtganggtcc attgcaaata ttttgaactg agtttggaca aagagtttna  540

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agngggaacn cagattttcc ccaaggnggg aaaggaaggg cagggt

586

<210> 5667

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5667

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 tcctcaggaa gagggatggt gtctcagtg ttttcctctt ccatccgngc ctcaaactag 240
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 ggcaaggag ctggaanaac actngagaga cagcaggtaa attgagacat ggctttattn 480
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<210> 5668

<211> 470

<212> DNA

<213> Homo sapiens

<400> 5668

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<210> 5669

<211> 586

<212> DNA

<213> Homo sapiens

<400> 5669

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 tgatttagca ctgtccccct actgtgtgtc cgtgatagag ttctcatgag atttggttgc 180
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 ctcaagcaag tcaagttgag ggactatcct gggagctatt tttccgngcc ttggttttnc 540
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<210> 5670

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5670

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aatcaggttt gtgaaaattc agatggccta tgggtgagct gtcactcagt tgccaaactg 180
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aagatcaagg tcctggncat tgaaaaacct gggttaaacct tnccttaagtn ggccaaacca 540
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<210> 5671

<211> 492

<212> DNA

<213> Homo sapiens

<400> 5671

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cacaggcaca tgccactaca cctggctaata tttttagtag atgggggttc accatgttgc 180
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<210> 5672

<211> 604

<212> DNA

<213> Homo sapiens

<400> 5672

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 cagtcttcca aagtcttact catttcagca ttaacttaaa aggtccacag acccaaggtt 540
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 cntn 604

<210> 5673

<211> 614

<212> DNA

<213> Homo sapiens

<400> 5673

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<210> 5674

<211> 601

<212> DNA

<213> Homo sapiens

<400> 5674

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tgtgattatc aagttgaaat gaatatttac tcaaacctgt aaagggttn gcttttcttg 540
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<210> 5675

<211> 533

<212> DNA

<213> Homo sapiens

<400> 5675

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 gtgtgaagtc tatggaaatg tcaacacaag gcacattagg ttctgaatga ccacaaaagt 240
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<210> 5676

<211> 608

<212> DNA

<213> Homo sapiens

<400> 5676

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 attttcatta cctcggaaag aaactctgta cccttttagct attcccctgc ccacccatgc 180
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<210> 5677

<211> 610

<212> DNA

<213> Homo sapiens

<400> 5677

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ctagttgcaa tagtggaact ggaagactag tagtaggtag catatcaagt tgtataaaac 180
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ggatgtgtgn tttgggcac c attaaaataa aagttaccat ggtaaatacg gcagaaaatc 540
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<210> 5678

<211> 602

<212> DNA

<213> Homo sapiens

<400> 5678

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ccaccatgcc cggctaattt ttttatattt ttagtagaga tggggtttca ccgtgttagt 180
caggatggta tggatctcct gacctcgtga tccacctgcc tcagcctccc aaagtgctgg 240
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tcagactcaa tggncctagg agctctgcaa tacattggct tactatacct tcctttctta 540
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<210> 5679

<211> 605

<212> DNA

<213> Homo sapiens

<400> 5679

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 ggactacagg catctgccac caagcccgt aatttttgta taaaatacaa aaattttaag 180
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 tcttggcctc gtgatctgcc cgcctcagcc tcccaaagtg ctgggattac aggcattgagc 300
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 tgcacagccc ccagcacagg gaaacggcag caagtgtgtg tgaaggcagg aatggcgctg 420
 ggatgccctg ccatggaacc gctggctcac agcagactca cgcttgtggg cagtgtttgc 480
 gacggacggg actttgacgt ggctcaaggc aagttcttnt caantncaag aaggaaaagg 540
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 gcatg 605

<210> 5680

<211> 357

<212> DNA

<213> Homo sapiens

<400> 5680

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<210> 5681

<211> 596

<212> DNA

<213> Homo sapiens

<400> 5681

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gactgagggg aatatgctgg acttacatgg ccatggaacc ttccttcttc tagaaaccca 540
agcggtatgc ngaatcatta tgcncacatt cccgcnggaa aaaagggttg accctn 596

<210> 5682

<211> 598

<212> DNA

<213> Homo sapiens

<400> 5682

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cangaagttg tccagggact gncacatgct cgcttctnac catgggcagg acggtggcaa 480
caagggggtc cacgggccgg ccttttttaa ggggcagaac aaggggagtg aanccgggcc 540
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<210> 5683

<211> 588

<212> DNA

<213> Homo sapiens

<400> 5683

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agtgaaaata tggatgatag gtgggcaatg gtgtctgtgc agagtcccct cataggaggg 180
acatcagagc agccccctct caccagtggc tgccccagca cctcaggaa gctgtttctt 240
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aagggtcng tttaccaa atgttgctgg aaaccagcct gagtgcctnt cttgccccaa 480
aaggagatc tcantgaana cttnggtnc caagccaggg cctcaagctt aatttaaagc 540
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<210> 5684

<211> 585

<212> DNA

<213> Homo sapiens

<400> 5684

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 tctgattgtc caaatcatta aaatatggat gattcagngc cattttgcc aaaaattcggt 180
 nggctggatc atagattaac attttctggg agaaaaaaga aaaagagata tttatttagg 240
 aaataaacca ttttttaca aaatctccat aaaacctcaa cttttctaca ataaaccaa 300
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 tctcctcccc tacatttcac tcttgaggc tagaataact tactctgtaa atcatagata 420
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 ggncccctgg gttattacac cattcttgg aaggcattaa cttgg 585

<210> 5685

<211> 602

<212> DNA

<213> Homo sapiens

<400> 5685

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 ctctggcctc agatagtttt ctacacata tgcactaacc agtacttagt taaacactag 180
 ggtaggacct cctggagata gccagagtgt tctctctgtg cagctttctt ctttctggta 240
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gttgccctggt gtccaatgcc ttccaaacag tttttcttta aatatatttn ggtcattttt 480
 tttttcaatt gggncatgtg angggggtaa ataaatcgag gcccttttac ttaatcttgg 540
 gccngaagaa gaaangagga agtctcctgg ggcnttttaa cncctctttg aaacccaact 600
 tt 602

<210> 5686

<211> 597

<212> DNA

<213> Homo sapiens

<400> 5686

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 cgcgcacttt aatcatgac cactccatcg ttctctccag gacaaaaaag aagggcagga 180
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 gtggcctcgt gtgcagaata naataacat ttagcataga tctgtttcag ggcttttttag 540
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<210> 5687

<211> 596

<212> DNA

<213> Homo sapiens

<400> 5687

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gaacttttat aaatcagctt ttagcaatgt agcagttagg tgggggaaag gggaggggag 120
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<210> 5688

<211> 585

<212> DNA

<213> Homo sapiens

<400> 5688

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 tgngctattt tttctttcag tggatgattg cgctttaaaa cagaaaacag agcttacttg 180
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 cgctatgtat gtcacaggag aaggagaga agctaattgct ttttaaggag ataggcagga 300
 gcagtagaca aagcaagact agagcggttg tccagagcca gttctcccat ggaggcaggt 360
 ggtagtacct ctggaagaag tgtggaaagc tggcttccac cccagggaat attactagaa 420
 catttctgga gagaggaata ggcagtagaa ccactgaact gcaaaggaat ctgnggactt 480
 ggaaaataaa gtgaacttct ggttttctta accaaacttt atagcatgga ttaagncttg 540
 ngcaagttaa cttcgggaaa attaaaatca cttaagaggg taagn 585

<210> 5689

<211> 586

<212> DNA

<213> Homo sapiens

<400> 5689

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tctttatttg cacctcgagc cagcagcaag tctaccacct cctgacgtcc accagaacat  180
gccaatgaaa gcgagagtat cttagtctgt tcagactgtg cttctatata tccaccttta  240
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agctgcgaac aggattcaag gtggaaagac ctttggggtc tgagaagaac tggttggaac  540
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<210> 5690

<211> 371

<212> DNA

<213> Homo sapiens

<400> 5690

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caagctctgc ctcccgggtt cagccattc tctgcctna gcctcccng tagctgggac  120
tacaggcgcg caccaccatg cccggctaatt tttngaattt ttagtanaga cggaggttgc  180
aangagctga natcgggcca ctgcactcca acctggatca cagagaanac tgnctcaaaa  240
aacaacaaaa aaaccaggna tgctgaatag caagtatgta ggtatccact gaagtactcc  300
naanattttt tcaaagatga gcatgatttt attatagaca atttaaaaat atngncangc  360
gngnataaan g                                                            371

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<210> 5691

<211> 588

<212> DNA

<213> Homo sapiens

<400> 5691

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gcagagtict gattacttaa cacagtgaat ttgcaattcc aagttacaga gacattcaca  180
taaagatatt cttgagctac taaataatgg ctaaatactg atgacaataa gaattaatac  240
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ggatcatatta taattctaaa taaatacatt attatgtttg ccacaggagt aggtgtgtat  360
gcgtgtgtgg gtatatgtgc atgtgtgtgt attcagatgg tactgaactc aagttggctt  420
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atgctatgat gtcaaataaa acctagagtc tagtcaatta gagtaagccg agtcntgaat  540
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<210> 5692

<211> 585

<212> DNA

<213> Homo sapiens

<400> 5692

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atggggaaaa gcaaacttca ccaaacatag agtaccaaca ttcaagtgtc cttttccaca  180
agtttctgat tttcaactta ggagagaaga acagcattta ataactgcat cccttgcata  240
tgggatgtat gacaggctat acctgcaaga aatattcaag catgttgaat cttcatctga  300
atgatggttt tcctttatgc caaaaggcca tgtctaacct tataataaat acagcagcat  360

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gagactgtac agtgggttctc aaagtgtgac cccgaccagc agtgagagca tcatctggga 420
 acttggttaa aatgtaaatt attaggtcct accttaaacc tcctaaatca caagcttgct 480
 ttaacaagca acctgcactt taaaacaaac tctctaggtg atctgggtgca tgctaaagtt 540
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<210> 5693

<211> 590

<212> DNA

<213> Homo sapiens

<400> 5693

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 ccttgcgtgt tcgatattca aagactgttt tgctccattc cccagtgtgt ttctgtaaaa 180
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 aaccataacc aaatggagag aattggaagg ttaccntta aaattttaaa 590

<210> 5694

<211> 584

<212> DNA

<213> Homo sapiens

<400> 5694

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aatttacgcc aacatitttac aaccctttca aagcatttgc tattgaaaga aggcattcag 180
tggcaaaatt ctgacattcc agtaaataatt actacccaaa gaaaagaaaa ttcttaattt 240
caagatcaaa gtgccaatgc ttttcttttc taaataagag taaagaaaaa gaaggccctt 300
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<210> 5695

<211> 578

<212> DNA

<213> Homo sapiens

<400> 5695

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<210> 5696

<211> 544

<212> DNA

<213> Homo sapiens

<400> 5696

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tggacagatg ggtggatgga ggaatggatg gacagacaga caaagggact gaagctgnac 480
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<210> 5697

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5697

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tcctctgacg ccatacctc ctcctggccc cacccaaggg ctcgacacaa gccccagggt 180
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<210> 5698

<211> 499

<212> DNA

<213> Homo sapiens

<400> 5698

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caaaaagatt taacgagctt tgctgcaaat gctggtgcca tttggcacat cacagggact 180
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<210> 5699

<211> 601

<212> DNA

<213> Homo sapiens

<400> 5699

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 aaggacaaaa tatgtggtta ctgagccatt actatgatnc acatacccca gaaaggattt 420
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 ttgattantt taaaggataa aataaaataa ncccttgggt anccaagttt gggccaaaaa 540
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<210> 5700

<211> 602

<212> DNA

<213> Homo sapiens

<400> 5700

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 ggacagatgt gtgtcctgga agatgtgctc taatgagggg agtgagccaa gcatgaggag 360
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 aa 602

<210> 5701

<211> 600

<212> DNA

<213> Homo sapiens

<400> 5701

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agagatggtg gtctcaccat gttgcccagg ctggtctcaa actcctggga tcaagcaatc   60
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gaacaatatt aaacaaaaat tatttcctgt ggtaacagag attacatcct atgggacagg  180
gagacaggca gcagactgat aaattaatac aagatctgtc tgatggtgat aaatattgtg  240
caggaaaaaa aacgaaggaa gaggataaga aacattgaag gactaaagga acggtcacia  300
agaagaaaac atttcagaaa agaactgagt aaggaatgaa gaagctgagt tctgaaagtg  360
tctgcagaaa ggcttttcag tagaagtttc agaaagtgtg aaggccctaa gataggaaag  420
ggtctaattg atgagcactg gcctacgaag gatgtgtggc catcagcatt agcccntccc  480
aaaatcaaat ttaaggagaa ttagacttta ntttaaattt tgcaaccaca ccacaagcat  540
cacaaggttt tggaatggg taagctgata ccaattagta ttgnaactat naatctgctt  600

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<210> 5702

<211> 474

<212> DNA

<213> Homo sapiens

<400> 5702

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gaactgtnc aagagttattt attttccctt aatctcaaag ctattttttag taatacaaaa   60
aagccatatt aacatttttt tccgttagaa aacatgatgt acaaaacttt ggatgaaaag  120
atacgtcaaa tttcatttaa tcaactggag gaaaatccac caactccatc aataccaccc  180
aaagngtttt aggcagngaa taaaatcaaa ataatgcac ttaataaatt ccagctgtta  240
aaagaacaaa cttagcaata tataacagtt tgctaacagg atttttgact attcactttg  300
ggagttattt ttaaaaatcc acttttttac tgagtcttac tacataccag gcactgtact  360
tgggccatct anggtaacta agaaaaccgt tggttaagat nggaangacc cttaaatacag  420
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<210> 5703

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5703

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gagatggagt ttcgttcttg tcaccaggc tggagtgcag tgggtgatc tcggctcact   60
acaacctcca cctcctgggt tcaagcgatt ttcctgcctc agcctcccca gtagctggga  120
taacaggctc ttgccacagg gccagctaa tttctgtatt tttagtagag acgggggttc  180
accatgttgg ccaggctggg cttgaactcc tgacctcagg tgatccaccc accttcacct  240
cccaaagtgc tgggattaca ggcatgagcc actgggcccc gcctaaatag tatatatatt  300
taaatactct ttcagaaaag gccgcttata cagaactatt ctgaagacag taaagaactg  360
ctgaagagga agaaaaaact ggctgtgcaa tagcagaacc tcctccgaac caaagcctct  420
ggagaagaac cagntgcagt ggaggcntta ctcacccatg ttaaaagcac cggaaccgat  480
taanaatccc aagcttggcn aggantggaa cttggaaaag ggnccctagg ngccnttgga  540
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<210> 5704

<211> 584

<212> DNA

<213> Homo sapiens

<400> 5704

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ggtaaagaaa agtgctgttt tttatttggt cttgaatgta taggttcttt taaaatcagc   60
tatacttccc tttaaaatat cctccctcat gcccacaccg cttagaatcc aatagccact  120
cctaacaagg gcctaggagg aactcatcct acatagccaa gaaaggggta cagcttgagg  180
aatgggcata tggctcagga agcagcacca gctgataaga actttcccca aagcagctct  240
gtttggcttg tgagtctcct ttccctgccc tggctcggac tccccagct gtgtccacc  300
cctggaattc ccctgttctt tatgtggcct gatcttgaga gttaaaatca taattaacat  360

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ctttacagct ggagagctga gagatcactg gtctcaagcc attctccac cacaacttta 420
tagatgagga actgnatccc aagggtcccc agctcatatn ggaaagagcc aaaaatttng 480
gggtcaaact cttcaaatca ganatctttc taagganaan cctccttaac ctccagnaag 540
ccaccatac tggcttcaac tccnaacaa ctggggccag cngg 584

<210> 5705

<211> 598

<212> DNA

<213> Homo sapiens

<400> 5705

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aacaaaagct aaccctacc ttggcccccg gagtaagaga tatcattctg aggaacacca 120
agtgaagcc tctaaaactg cccccctccc cagccaaact ctatgatcaa gatagtaaag 180
gaaaaacaat attgtgggag gggtagttag gtttataaga tataaaaaag taaaatatat 240
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tgacaaactc agcattccgc tggaggctat atgatcaaac agcaaactgt ttatcatgaa 360
tgcaggatgt gggcaaactc aactggcct gccaccattg ccacagttn ccatnttacca 420
gggnttttcc ctggacaagg tccttnggac ttaactggga ctgcntggga aggatttccc 480
cttcttgatc cccggttttc cctggnggga tccntaagg ttaccaggna ggcctttttt 540
aangaacctt ttacctttt tcaggcctaa gggntttntt ccgggggggt ctgggaag 598

<210> 5706

<211> 462

<212> DNA

<213> Homo sapiens

<400> 5706

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gcacgatctt ggcccactgt aacctccacc tgccagggtc aagtgattct cctgcctcag 120
 cctcctgagt agctaaggga ttacaggcgt gagccacat gtcaagctaa tttttttgta 180
 ttttttagtag agacgggggt tcacatgtt ggccaggctg gtctcgaatt cctggcctca 240
 agcgatccac ctgccttggc ctctaaagt gctggaatta caggcatgag ccaccccgcc 300
 tggctgagcc agctgcttct gactcaaaga aaggagccna cagtaggcca aggaaagaac 360
 acaagcccggt gaatggggcc ctccacaag aatactgnca gaacccttcn ggctttccac 420
 tacattatgc tnaaantngg atgggantgg tangaaccaa aa 462

<210> 5707

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5707

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 gtagcaggga ttagaggctt ccaccaccac acccagctaa tttttgtatt ttttagtagag 180
 atagtgtttc tccatgttgg ccaggctgggt ctcccactcc tgacctcagg tgatccgccc 240
 gcctcagcct tccaaagtgc tgggattaca ggcacgaacc accgcgaccg caccagcca 300
 ggattttcttg atacactaca aaaaggggat gtcaacttat gaataaaagg gaatggggct 360
 tttggtttca gattaggcca gacaggttga tgatgtcagg aggtgtccat gaagagttaa 420
 atggaatfff acatatctta ttgnatttaa tatgtcaca tattctattg nattaatff 480
 tcacgacaat caggtaagaa ttaggataag tantggatct tcattcaca atgatacccg 540
 aanttcagag angngaaatt ccttgc 566

<210> 5708

<211> 565

<212> DNA

<213> Homo sapiens

<400> 5708

canggaaagc catgtagttt ttttaagtaac atattgctgg tagtaaaaat gctatgacag 60
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 ccaaagcagc tgtgatatat ctgtcaaaga aaagagctaa aatttctgtt gataataaag 180
 ttgtttgtaa actgatgcta aaatatattc caattgtctt attttttagtg ctggtatgat 240
 ttactaactt ctgatagttt tatatgcatt gaataatgtg atattcttaa aatancagat 300
 ttattcaaga atatttaaca tcaaagttgg gctttcaaat aaatatttta cctcgggttag 360
 tttttgaaca aatgtttgcag gcagaagagt ggacttgatt cctttagata aataaacagc 420
 ctacttaatt tccatgcaaa taacaactta aacattattc catgctcaac agtaatgtgg 480
 gggaaagggtt aaaaaggcag gtncatcatga tggggaactt ccttacatat atccttaggc 540
 agattctttc tttaccgnaa ggtct 565

<210> 5709

<211> 558

<212> DNA

<213> Homo sapiens

<400> 5709

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 acataacatt caactggctt ttttctacca gaatgtctga tgctaatttg gaagaatttc 120
 acgtatatcc tatttgccga atgtacagca cattcttttc acttcagcac tgacaatcca 180
 aagtgtttca ttaaagaaac aggactttta ctttgtttca agttgtttta tggtagcagc 240
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 ctgccgaaga gataccaggg catcctgctt ctacacagaca tccttctcca gcattctcat 420
 agccaattcc atctcttgcc ttatgctgat ctgcactcc agttctttct caacatccaa 480
 tcggaattgg ggctcttctt ttaaagcttc ttggtttact taangctggc ctttgnagt 540
 ctatcttgct tgggancc 558

<210> 5710

<211> 559

<212> DNA

<213> Homo sapiens

<400> 5710

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gccaggcacc actctcaatg gtttgactca ctgtactctg cacaatcacc cattttccag 120
tgaaggaaat ggaggcacca agggtaaagt agccagcaca agtcagacct catggcgggg 180
ccaaggcatt ctggctccaa aatcccgaat caaaaagcag aaggtcaaaa aattaaaaac 240
aaagaaacat cacacacgga aggaggagag gccaaagatt actccgaggg attaaaatct 300
gagttttcct ccggtttacc ttctacaact ctttttactg accacgcctg acacactgac 360
acatgcattc cctgncacag tggcttctgn ggcccgcctg gctgtactgn acagtgcac 420
ttctnaaggc ggagctgcgt ggacccctgg nccttnttgg gccatggctc taantacccc 480
atggttcctt ccaaaggcaa tgggcantgg cataggtanc cacacgtccc attttttaaa 540
aaacctgnnc cntggatgc 559
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<210> 5711

<211> 555

<212> DNA

<213> Homo sapiens

<400> 5711

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gctcactgca gcccctacct cctgggttca agcaagtctc ctgcctcagt ttcccagata 120
gttgggacta caggcctatg gccacctcac ctggctaatt tttgtatatt tagtagagac 180
gtgggttcac catgttggcc aggatggctc cgaactcctg acctcatgat ccacccgcct 240
ctgcctcccc aaagtgctag gattacaggc acgagccacc atgtccagcc aattagttgg 300
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ttttaaatat atttaagtta atggacaaaa tattctaaaa gggcacagtt aatgacgcct 360
 cttcctagtg aatccgtgtt ctttatgagg tatcttttat agttgtatct tttttttttt 420
 ctgagatgga gtctcgctct actgtagccc aggatggaat gcaataagtg ngatcttggc 480
 tcactggaac ccctggcttc cgggttcaag gaattttctg gcntaaaccn ccggggaact 540
 gagaattcag gcnc 555

<210> 5712

<211> 338

<212> DNA

<213> Homo sapiens

<400> 5712

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 ggttgatgaa tgttgataca gtcattgggt ttcattttatt cattatgtct tccttcttct 120
 gtgggaggca gcgctgagat gataaatgct gggctcanat ccagcttggg ccactcactc 180
 ccaagattca tacacaaaca gaccagcttg atcagggccc agcagggagg tgaggcttaa 240
 gcctcctcgc tggaggagga gccaataaga agactggcag cttggatagt gagtgtgtgt 300
 gtgtgtgtgt gtgtgtgtgt gtgtgtgngt gnnngnnn 338

<210> 5713

<211> 555

<212> DNA

<213> Homo sapiens

<400> 5713

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 ataatgacat ttccgctgca tttttttcca tcaagaatac caaaacagtt tcctaataata 120
 cagtatttga aagtgtttgc catattggct cttaaaatga tagactaatt tttctcattc 180
 aataaaaagaa aattttctaata aacaaaatac atgtaaagtt agaattttat aatttccaca 240

aaggaagcag catttattaa ccagagtact tgtttgcaat tttttatctg tgaaaatatt 300
 ttaaagctct tacaaaactt aaatttttaa aaaatcagct caaaaatttt ttccatgttg 360
 ttgggcatac cactgctgtc tctgctttcg gttttccaac tctgtaagaa gggcttgnct 420
 gtatgcttca tacattttta caatctgtc caattctttc atgaagagca ctttagcatt 480
 ccctggnatg natccaggca gncagctggn aagagttcca cttcaaaatg gggcatantt 540
 ccangggctc ggcgn 555

<210> 5714

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5714

ctggatgcaa ccaatcactc tgtttcacgt gacttttacc accatacaat ttngngcatt 60
 tcctcatttt ctacattgta gaatcaagag tgtaaataaa tgtatatcga tgtcttcaag 120
 aatatatcat tcctttttca ctagaacca ttcaaaatat aagtcaagaa tcttaatatc 180
 aacaaatata tcaagcaaac tggaaggcag aataactacc ataatttagt ataagtaccc 240
 aaagttttat aaatcaaaag ccctaattgat aaccattttt agaattcaat catcactgta 300
 gaatcagagt ctgtaattct tttcttgatt agagtggtag gacactgtaa tactgttcct 360
 ccatgtttcc atgcatacaa tgttatgtgt tactctacac tgtaaatgca gtattcaaatt 420
 tcacttgagc cgtgggcctg gaagttagag actagctttt accttattac tttcaatgat 480
 tttatctggg gtttagctgac aaatctnttc gnggntgaat ccaaattctt naggggtctcc 540
 tcaggggggg cnc 553

<210> 5715

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5715

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 tccgcctgcc gcagcctccc aaagtgccag gattacaggc atgagccacc aggcccagcc 120
 tacttcttga attaaaaaac aaaaaacaaa caaaaaaccc aggagataa tgaaatcctg 180
 catacactca agtctgcatg aagcataagg ccaaactgga aagtgggcat ttgaacaacc 240
 ctcttcttgc tcccttcccc taactaagat gggcttcttg gcctatcaac cattcttttg 300
 taaagagcag caattcccca taggtctctt aacaacagca ttggtgtttg aggttgcac 360
 tttaaaacat ctatttcagg atttgaagc ttctggaacc ataactttaa cccagccttc 420
 cataacagtc tttttacttt ctattacaga acatgacact gcaataatag caatgaaccc 480
 gcttcaagct ttttcacttt ctggcagaaa gcttaaaaca cttctncaa tatataaagg 540
 gggctggaag gcttaatttc ctgg 564

<210> 5716

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5716

gaatagaggt aacagtctga acttctttta atgtttgctt tgttttcttt tctgctgact 60
 tgaatgcctt ctcagcagct tcaacagtct ttngngtttt cttagcagca tatctcttgn 120
 gatcataata ctttttggca ttggcatatg ctgacaagct gagatcaaca tctacaagta 180
 agggcttatt ttctgaggc ttctgcagct gtttattctt ttgttttttc ttttttctt 240
 ttggtggttc agtttcattt ttctcaacat tgacgtcacc atcaacatca tcattcttct 300
 cctctgataa caagtatgga ttctcttagca gcattgtaac atggnttggt tgnagtttaa 360
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 ccaatttctg gccaatctat ctgggtagct taagcctttt ngaactaccc ggaatgggtc 480
 tggcaactat tgggnaggtca attctaata gctctccttt cagttggcca atttccggnc 540
 cctgctgaaa agcttncaaa cnng 564

<210> 5717

<211> 525

<212> DNA

<213> Homo sapiens

<400> 5717

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cactttggga aatTTTTTaa tcaatcagtt tcttaggaac aacacccagt gggcatgatg 60
agacctcaa agtaggaatg caggaatgat aggcaggtga ggtggntgag ctatctgggc 120
tgaggagcca gcctcctgga atcttaggac aaataaaagg gggaaaaatc caacctcaca 180
ctnttttga aggtcggata tgtttacaga aacaatttct gttttggaaa ataatgnat 240
ggtncaatTT ggggctgggg gaacaatgac aattgtcanc tagagagagg ctcatgattc 300
tgagataaat gttaagtgga gctttttaaa atgctgaaac aaaacattac cttggtactg 360
tctccatcat gagatgtatt tgacacattt gaccatgtgt aaaaccccca gatttaccga 420
atgccatgga tccatgtgcc cacnccatga atncaaacct ggnggatatg ttccaggaag 480
gaccggcnna gagttcatgn gctttacttt tnggaaagaa aattt 525
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<210> 5718

<211> 540

<212> DNA

<213> Homo sapiens

<400> 5718

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aataaagcag aaatgtatTT attaggcacc cttgttcctc acagaggagc aagatccagg 60
cctgagcgcc tgggaagtct cttgagggtg caggaatctc cagagaaaca tgctctgacc 120
cttctgctct ttcaggatgg tctcatagcc cacgccccgg gtggggtaca tgtccccctg 180
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cggaggtggc tgggcctgcc agggngaaga ggagcctgga aaagtcccct tgtcccgggg 420
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ccaggtcctt angggccttc ccaaatccga acggctttnc ttgncaccgg ttgctnaanc 480
ccaacacgta aggggttttt aaaggacctg anagttcttt gccggctttt cgcggngtng 540

<210> 5719

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5719

aacagaaatt actgtaactg ttgaattatc tgggagatag acacagccct gtccttgnng 60
tctacgaaca ttgggaaaca caagtaacaa tttcaagcat aacctctggt ataaacaagg 120
gaaacaacaa aagttcatgg gcactcatca caaaaagact aataaaatct aagacctagt 180
aattccttat ggagtaagaa gccagaaata ataaaagaac tgttttaatg gaaagataaa 240
ttcacgtgtc agaacctaga gaagcaacag acaagtctga acaggaaggc agtaagggtg 300
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agcaaaaaac ttttaaggaa ggcttttgag gttgagaaga caatagnggt ctgggttgga 480
cccggngaaa ctggtttaga tcccgacttt anggangtag aaccnttaag gngngggagg 540
atgaatgacg agttaagcct g 561

<210> 5720

<211> 406

<212> DNA

<213> Homo sapiens

<400> 5720

ctgntaataa gaagacagct ttattttctc aattagttca cgtatataca tggctgaaat 60
ttacttattg ctacaattct attcttcttc cttttttttt gagatggagt cttgctctgt 120
tgcccaggct ggggtgcagt ggcacgatct cggctcactg caacctccgc cacctggatt 180

caagcaattc tcctgcctga nactcccgag tagccgggac cacaggcgca tgccaccatg 240
 cccggccaat ctttgnattt tcagtagaga cagggnattca ccatgttggc caggctggtc 300
 tcgaacttct gacctcaagt gatcccgccc cgntggcctc ccaaagngct ggnattacng 360
 gcgtgagcca ctgggcccag ccctattctt nattttngac atgnaa 406

<210> 5721

<211> 248

<212> DNA

<213> Homo sapiens

<400> 5721

gaccaaaaaa ggcaactata tttaaagtaa atgtatgtga ttcttgtcac aacaaatatt 60
 tgcatTTTTCT cagcggcagc tgcggcacct ggggtggaagc cgngattgag gtgcccgtcc 120
 atctccagct tcaccccggt cagggtggtc gggggcagga tctcattctc ctccctgttg 180
 gctactcatt tccagcgaag tttaatctat ttttaatant cgttcannnt tcanggaaat 240
 ggngngngc 248

<210> 5722

<211> 523

<212> DNA

<213> Homo sapiens

<400> 5722

aatagaattt cattttaata attaaagttt atcgcttcca aaaaacagca cttaattac 60
 attcaagttg tattcatttt aaataccaac aaacccatca tttaacatata gagctagata 120
 ttacaaaaca gatggaaatt taaacaagtt ttttttttaa gtccttccaa atttagaaca 180
 ttgtgaacta ttaagtacat gcctaaaaaa tgtacacatt atcagggaaa cacaagttgc 240
 tctaatagga aaagagccat aatacacata cagtgggaata taattcaaatt aggttcaatt 300
 tacaggtatg tcttaaagtc aagaaaaccc caaagctaata aactagaact atagggcaaa 360

atcatagctg acttttctaaa ctaatgcacc actatataat gcttttcccc agagaaaggt 420
agaanggtct caagatttat ggtggcccca tggatttttc acggggtctc aaatntaaaa 480
nccagagttt tctttttggc nttaaattac nctcanngtt tgc 523

<210> 5723

<211> 484

<212> DNA

<213> Homo sapiens

<400> 5723

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taggaaaggg gtgggaagaa aaccagccta cccttcaagc tgacttagga tgcaanggta 120
cagacaccag ccttggggga gggttctcca tccacactcc taccctaaac gggctttgtg 180
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cacagggccg cacgggaagg cagcgggaagg gtgggtgccc caaagcatng ggngggatct 420
gtgcttgtn gaggttntgg gaacgggcct ngganggcct tcacctttgg aacttttctn 480
caag 484

<210> 5724

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5724

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taaataataa cagagagaaa tgaagaatta ttctgccaat actatgattt gaattattag 180

caaggcaaaa aacatactat tcagatccct aaaaaccata tgaagcttct ttttaaagtg 240
 ctcaaacgtc ttaatggatt tgagttttaa aaccagatct taattttttt tggtttatta 300
 caaaaattat acacataaat tataaaatga tcaaatacaa gacagttttt caatcccacg 360
 ccactgaagc aagaaccatt aacaatttga tggttctttc taggcatttt tgnggaatat 420
 aaaatgnata atgnattatt ttaagacat ggcttttggg aaaatgcttt aatantatat 480
 catgggaaat ctttcacctc ttngggactg ggcagacctt tnaagctgga gaaaaatttt 540
 cngngaccaa aaaaaaanng ctttat 566

<210> 5725

<211> 573

<212> DNA

<213> Homo sapiens

<400> 5725

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 cattcctttt ttgcttttta aatactgaga cagcatttta gttcaatatt ctaggttcaa 180
 actgatacat taaaaaaaaa tcataccaac ctttaatcat tctacatcca ttttttaaag 240
 ttagctaaca agatgatgtt tcaactaaaat aaaatatcca atcatcagat taaagtgtaa 300
 agtttgtgtg aacagggaaa ttagatcatt tctctaagtt ttaattccta tgttctgaat 360
 gtttcttgaa ttaaaaattc attcatcatc ttactttcaa accacggcat ctctctttta 420
 ccattccaca gaggagggga aaaggactag aaaatacctt taaaaaaatt aaatatttta 480
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<210> 5726

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5726

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 tatacaagaa atacaattca aagagatgtt cctataagta cattttttac acggcatata 180
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 aagcagngga gcacccggga attcctgccc cnttttggg tncacaattg cctccattct 420
 ttccgccttt cntggttttc tccaaaacca cctggatang gggggaaggc cctggatttc 480
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<210> 5727

<211> 545

<212> DNA

<213> Homo sapiens

<400> 5727

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 tctgtacaga aaacaacgaa caaaacagaa cttcaacagt aacactggcg tggcataata 180
 taagccacgc aaaatgcttc caaatccatt atctcttctg agtttcatct tgtgaggttt 240
 gaagggtaca ctgattgtac ttaaaaacct aaggcacaga gaagggttaa taacatgcct 300
 gagttactaa aaagagaatc cagatctagt tcaaaatctg gnccttcttt cactatacca 360
 ataacatctg actgggaggc agnatgagaa gagcaatgga gtaagcacta anggtaattt 420
 caggggcctt aaaccccccta atatattatg gaccactctt canttgaaaa aaggttggca 480
 tttcttnaag cnttaaaten ccattatata tttttnaagg gtttcccagg tcntttctac 540
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<210> 5728

<211> 513

<212> DNA

<213> Homo sapiens

<400> 5728

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agtagagacg gagttttacc atgttgtcca ggctgggtctc aaactcctga cctcaggtga   60
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ctctctttct ctctctcttt taatctcttt attatggaaa ttcagaaaact atacacaacc  180
cagaatagtc tatgaactcc ctaaagactc atcaaccagc ttcaacaatg atcatctttc  240
tgcccatctc attcctctcc tttttttttt tttttttttt tgagatggag tctcgctttg  300
tcaccagggc tggagtgcaa tggcacaatc tcaagctcac tgcaacctct gcctcctggg  360
tacaagcgat tctcctgcct tagcctnccg agtaagctgg gattacaggc gcatgcccc  420
gtgcccagct aatttttnga ttttttttta gtananaacng ggnttcacca tgcgggcaag  480
gctggcntgg aactccnggc ctttgaactg gca                                513
    
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<210> 5729

<211> 250

<212> DNA

<213> Homo sapiens

<400> 5729

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cgagcaanaa tctgttaaca gttttatttt ttttatgtta aataccangg gacaggattg   60
taaggatgaa aaactcagtc aacaactgcc tcacanggga taanaaaaat tctgccatga  120
tattagcaaa ggtaaaggag gaaaaattta cncgtgaana ggcncattt cccaaggaa  180
tacctntngg catttctga atgagnggga ttagcaatct aaataaatca tatttcaaga  240
ggtancagca                                250
    
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<210> 5730

<211> 569

<212> DNA

<213> Homo sapiens

<400> 5730

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gccagataat ctttatttta cacatttgca acacggcaag agaattcacc ccgtacatca   60
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cattagtgtt ttaaaaaaaaa atactgaaaa ctccttctgc atcccaatct ctaaccagga  180
aagcaaatgc tatttacaga cctgcaagcc ctccctcaaa cgaaactatt tctggattaa  240
atatgtctga cttcttttga ggtcacacga ctaggcaaat gcaatttacg atctgcaaaa  300
gctgtttgaa gagtcaaagc ccccatgtga acacgatttc tggaccctgt aacagtatct  360
tacgtgctcc aaaggctgac cttctggagg ctcaccgcct catctggctg cttcctccaa  420
aatccaaaac cttgcctcaa aataaagctg tctgtgggt gaagtggct ggtctggttc  480
attctgacca ttctgacttt tgnccaaaaa gccgtccaac tgnagacacc ctgntggcag  540
aactccaaca ggtcccnag gtacgaggc                                     569
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<210> 5731

<211> 583

<212> DNA

<213> Homo sapiens

<400> 5731

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cctggacagc atttcatttt attatgtaac tgtagaaagc cttgatcaag ataaaaatag   60
ggatgactta tcagaaactg aagaattttc ttaggaaagc aaagtttact gaaggatacc  120
ttcattccag ccatgatgag catctgtctt ctcaggcaat catgatgaag ctccagggac  180
agtataaccc atctctccca ctcacccctg agccttggct ctggactgaa tgtggttaga  240
ggttgtggaa ataaaaaaaa gaacaaaaat aagaacactc tccataaaag ccaagctcag  300
agactggctc tcttttgctt aggtacaaca ggagcaggaa ggatcaacat tcttgaaagc  360
ataccttcta ttcatttggc ttttttgact tggggccgcc agtgtanagc tgagcactcc  420
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actgcccttt ctccactcac aaatgtctgc ataggtacac gttccggcac tttcaagcct 480
tcttccacgt naacttccct ggggcttttc ggtggnccat ncctgntcct tgaaaggtaa 540
aagggtcaaa ccttanccaa gatcccaang gactccgaga tna 583

<210> 5732

<211> 460

<212> DNA

<213> Homo sapiens

<400> 5732

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ataattttat agtaacagta aaattctgaa tcactttata gtaaaagaaa agacacagag 120
gaaaataatt tccctgtaca atgaaatfff catacactat atgaagattt cccacatctg 180
tcaagttttg gctcagaata aaagatagct aatatatttc actctttttt ctggtacttt 240
tttttttttt tttgagacag tggttcgctc tgttgcccag gtcggagtgc aatggcacca 300
tctcggntca ctgcaacctc tgcctcccag gttcaagcga ttctcctgcc tcaacctctc 360
aggtagctgg gattacaggc gtgcgccacc aaaccagnt aattttggat ttttagcnaa 420
accngnttc accatgtggg nanggctggg ctntaactcc 460

<210> 5733

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5733

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ggaacgaaaa agagcccagc atttcctaag cttcatctac gtgacagggc atttatttag 120
nggaattaca tacaggaggg tcttggagat tgcctttgcc tttcacttgg gatgaaaatt 180
tcctctgcag catgcaaaac aggtgagagt gttcctgctg ctacagagtt cttttgcact 240

aaaagaaaaa tcttcctcct ctcaaatttt gcctaccaac tctagcacag tcatctgagg 300
 cagcatgaat caagcccagt tttctttctta cagtcacttc cttaacagtt aaaagaagca 360
 tctgtcttct tggacttctc tggacctaat accccttata ggtagctat ccccgacaca 420
 aagagatttt caggaatacc tcaacttgnt cactcactac atgcctctta cagtctacca 480
 accatggtac ccanaaatgg actcagattg cnctaaacat actgcttcnc atacctggcn 540
 ggtaggaata gcctaaaggg gtan 564

<210> 5734

<211> 558

<212> DNA

<213> Homo sapiens

<400> 5734

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 tgatcaactt acttcctgtg gccattagg gaagtgggtga cctcgggagc tatttgccctg 180
 ttgagtgcac acacctggaa acatactgct ctcatTTTTT catccacatc agtgagaaat 240
 gagtggcccg ttagcaagat ataactatgc aatcatgcaa caaagctgcc taataacatt 300
 tcatttatta caggactaaa agttcattat tgtttgtaaa ggatgaattc ataacctctg 360
 cagagttata gttcatacac agttgatttc catttataaa ggcagaaagt ccttgntttc 420
 tctaaatgtc aagctttgac tgaaactccc gnttttncag cactggantg tgggccgtat 480
 gaaagaaaac ttacantag atgggagaaa agggaaatag ncttgaaagg nagggnggtt 540
 tttttttttt gacagggc 558

<210> 5735

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5735

cgactgtaac ctgcttttatt aacacagaaa ctgcaccaca cacatttgaa cctcatagcc 60
aatgaacaga cccagcacit agcaacttct cccctcctgcg cccagagaa gggagaaaaa 120
gagggagcag aggagcacca gctacttccc aaacagcgcc acggggaagt cctcgccatc 180
actgttgctg tgctgcagct ccccgctctg cccagctct ctcccaacat cttccatgag 240
ttgctccagg tccaggtcac tggaggcttc gtcctcaagg gggacacttc cagcctcctg 300
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cgctgatagg cccaggttct ttggcactgt tctaacttct tttccctctg aaaagctggc 420
tgccaaggcc ttgctctggg gagctttaaa tttttctta aggctggttt ctctccttnc 480
ttccttttcc aactcttct cttctccttt ttctttanca ngatcctggc tggttaaaac 540
caaaaactgg aagctttttt ttcc 564

<210> 5736

<211> 571

<212> DNA

<213> Homo sapiens

<400> 5736

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aaaagttaca cattaaaata ttttacaatt cattatata tcaccagggt cccattttct 120
aatgggcttt taatataaag cagaatagaa gggaaaatct caaagttgat tactttgaca 180
ctaagtttta cataggacac taagaaccac aaaaagctta ggttctattg taaaatagca 240
accaaattcc attcttcttt taaaaatcca attagaaaca tcttttttaa aaaaacaaat 300
tccacaataa gagtaacaga ttcaaatta acagtagtct aaaaatcttc aaaataaatg 360
gttttgata gctgagaata tggtagaaag tgaaagcata attttccaac agtcatttct 420
tactacagt ngtttaaaat tatttttatt acttttagac tttttctcaa aataattatt 480
canggaaata ttcttaaggn gggccaataa aactgnagag gccataggca ggtaccccca 540
tattcanggc canggatggc agctnttgat g 571

<210> 5737

<211> 539

<212> DNA

<213> Homo sapiens

<400> 5737

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aacctccacc tcctgggttc aagcgattct cctgcctcag cctcccaagt agctgggact  120
ataggtgtgt gccaccacca ccggctaatt tttgtatitt tagtagagat gaggttacac  180
catgttggcc aggctgggtct tgaactcctg acctcaagtg atccacttgc ctcagcctcc  240
caaagtgctg ggattacagg catgaaccac tgcacctgga nagcccactg cttcttgatg  300
catgttttga acttcaaagt tggaccagct gacagaggct tcaaggggac ctttagctga  360
ttctgctcaa ggaccagttt attttgtaa catcaccaaa tagcctanag tggggatatt  420
acctaatttt agaagagtct tatgnnctaa naaaagtaga tgcatagggt gatcatgcnc  480
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<210> 5738

<211> 567

<212> DNA

<213> Homo sapiens

<400> 5738

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caaattaatt atttctttta ttcccaattg gtaaatagtg aatggggcag aggagcaaag   60
attttctttt ctttcttcct acgttgata aacaagaaca gaaaacagcc agttatatgt  120
gaccctctaa tcttactca cacatgcttg ctttctcact tatgtcataa ctgcccaatc  180
tgaaacagta catcacagat gacagatgca accagagagt tcaggacagc tgatatcgag  240
atatccagca accggccctc gtgcaaaagg aattccgagc ggttttcgtc cactctggcc  300
atggctagca aagccttggc cgccctgcac atcatgtcta cgctaggtgg ttccaggggc  360
gggggctgca tgtgcatgag gttgtgctgg ctctgctggt actgggcat cgtgacccca  420

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tcctctagga agcttatcaa gtttccaatg cttectttct gcacagctat ggcccttgct 480
gctagtgcgt ccccttggca aggttcgata aaagcgccat gggcatttnt cgacagactg 540
ggntttgggg ancccaacgn acctant 567

<210> 5739

<211> 504

<212> DNA

<213> Homo sapiens

<400> 5739

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agcccacagc cccaacctgt cccctggctc tgggcctggc ctttggtgcc caccctggcc 120
tcacatgcca acgtcttctg tggagtgtgc aggtgtccat gagcgttcct gtgttggggg 180
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ggagcccact ttggatgggc acaccaactg gcagcaatgc cgggcgaacc ccaccatgca 420
caaggaactt gnanncanncn ttacatatga gaacccccac ngacncggaa ccacgaaagg 480
acccaagga ccacccttga atgg 504

<210> 5740

<211> 560

<212> DNA

<213> Homo sapiens

<400> 5740

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gatggcagat attccccctc tagaaatgca ttaattttat ttactaaaca gggcagcagt 180

tcacaggtct caagaccggt cactttgtga tgttttgag ccacacaaca ggaggctaata 240
aattatttta atagccatac tgagactctt cagtttatta agaaaaatgt atttcctcag 300
gcattttaaa atatatatac atttaatat tttggagctg tatttgcat ggatcataat 360
agattatgtg cacatgtgca attataaaca taatgtgcta ccacaggctt caacaaagag 420
ctgttaaaga tacttttttc ccttctcatt aatattacct tagaaaagaa tccccatgct 480
tggtttataa aaatctacct tnacttaaac agacaggtta gaacngaaca tcctatctta 540
aagggtggtta aaaaaatctn 560

<210> 5741

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5741

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cgaaaaacac taaatactgg cagaaaggaa aacaactgat aaatccagag cccaagatta 120
cggatttgaa attaatacac taccactacc acctctctcc ctgaaacaga gaccctctct 180
gngtaaaatg aaagagatga aaggagctta aaaagctgct taaaactgca gaagtccctc 240
tgggtactga cctatctggt tgggcctacc ttttcaggga ctgngtccat gaccaggtct 300
ccatacatgt tcatcacctg gggagaagat gggaggcagc ttgccatgga ggggtgcggca 360
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aggcctgntt ctctaccctt tctncctggn cactgagcca agtctgncca tcaagggcc 480
aaggcattca tggcagcacg tgccgttata agccctngga agnccntacc atggattgcc 540
tggnatccct gggaaaa 557

<210> 5742

<211> 512

<212> DNA

<213> Homo sapiens

<400> 5742

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tatgtaacaa tacatcacia aggaaagcaa acagaacaat agccagggcc ttctccccgg 180
ctaataggga tgtcacttgc tggggccttg gaatccatga ggcctgagca tctgggttct 240
ttgctgtgcc caanantggg catntgggag tccctggcac aagagggagg gccaccatct 300
tggagaatga ggagaatgaa gatgagatta gagccacctg ggtcttggtc ccagctctgc 360
cacttactgg caaatcagga aggaatgttc ctgagggctt gagaaagcat cattctctct 420
gggccttaat tctcanggca gaatggggca cttgcattgg gaaaaagtng gcaccttaac 480
ntgnttgctn caagggtaaa ggnttgcnac ac 512

<210> 5743

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5743

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ttacagggtgt gtgccaccac aaccagctag ttttttttaa atatttttag tagacatggg 180
gttttgccat gttggccagc ctggtctcaa actcctggcc tcaggagtga tccgtctgcc 240
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tatcagggtta aatttcgtgg gcgtgctaata ggtactgtgg tttttagtaa tatcttggtt 360
tttaggagat acgtgctgaa aggttttagt catgtgacag gatgactgtg acttactttt 420
aatgattagc tgaatcagag aacaagagag agctggatat gtgtgnggct atgttttagac 480
ctagagaaaag agaaagcnna tntngcccat ggtaacgatt ggtaaactcn aagtccccgg 540
gnggatgggg g 551

<210> 5744

<211> 549

<212> DNA

<213> Homo sapiens

<400> 5744

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gggctacagg catgcaccac catgcccagc taattaaaaa aatttttttt gtagaggtgg  180
agtctcacta tgttcccca gctgggtctca aactcctggc ctcaagcaat cctcccacct  240
tagcggttgt agacatgaga caccacacgc agcctaaacc ttttcttcta aagaaccctt  300
aacacaaggn caatatgcaa aacaaaatac agatactaca gaataagctg gagtagcaga  360
gagagacata agataacctc accttataca atgcagaaca tctgncttta atcataattt  420
tttttttttt ttgagccagg gctctttctg ggttcctggc tggagtgcc a angngngac  480
acnggctact gggagcctta anccctgggt taaaagancc tctgcttanc cccccaggaa  540
cttggactt                                     549
    
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<210> 5745

<211> 499

<212> DNA

<213> Homo sapiens

<400> 5745

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aatacaaaaga gtttgcagat atgatcagng cattataggn gttttcaa at ttctcctatg  120
ataaattaaa aatgtaatgt tggacattaa tttcctaaac ccaatgctca gcaattttct  180
caaattgttt cgcttttccc aagagacttc agaaccattc cctggagnga attattttcca  240
atggtgaaga gtaatggatg gatgggatga cattctcaaa aaaatcttgc tcctatttca  300
gaagngtcac tccagcccct tgaagggtcca ggaaacctgg ctgagtagtg tggctctatgg  360
    
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aggtgcatgg gcttcagagt caggccaacg ttgatcctga gtcccagcca gctgcttant 420
anctgnngga tagttatacn aggacacatc tagtgatggg gctcaagctg aagacngnta 480
tctggcgatg cnaaaaacc 499

<210> 5746

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5746

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catatcatga ttatactgag tagctcgact tgcaatgata ttttgtaatt ttttgcacct 120
catctttctc attcttttagt agctgatgca aattcctgtt cttacattgt aactgtctgt 180
ctctttcctg aagcccaatc atttccctcc tggaggtttc cagttgttcc ttaagttttg 240
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cagctactat atttaactct ctctttgtct ctttaccttt ggattcttca tataatgaag 420
gaaaaccaa agtagtcaat tcctggtagg agaaaatgnt ttcttaaagt tggttacagn 480
tgaggagata ctggcagagg atacaaactt tcagntagat aggaagaata agnttaatag 540
gactattgnn ccaccnnggg gnc 563

<210> 5747

<211> 550

<212> DNA

<213> Homo sapiens

<400> 5747

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tgaccgtata gttggaattg cagttaacag tcaatgactg cagaactttc tggcatctag 120

ttcgtgggggt ctccgggggc ttttcatgtt taacttccaa tctgtgaaga attgttgcag 180
gtgatcacct gccttcctac cccacacacc aagcacagga gaccctgat taacaacaaa 240
ccaaaagtgc atgctgcttt aaggaagtaa ggatagaact caggaatgca gtttcaaaag 300
atcacaggaa cttcaagaga atcttcctac catatttagt gctttctcca attttcggag 360
aatcttcaac agaatggtag gaagtaaggc aaatacatTT gattaggctt atgaggagaa 420
attagaggaa agtggttgta gaagtgattt aatcactatc ctgcatatta aaagatcaga 480
tnggatacct ggtcaatggt tcnttggttt tgaaatggag ncttgctntt gganccagT 540
tgganngcca 550

<210> 5748

<211> 558

<212> DNA

<213> Homo sapiens

<400> 5748

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gtaagcagta ggcattcaca tctccacatg tacaatgcac tgggaagcac agccccacca 180
gtcactccgg gtgtttctca aacaagatac cgactcgggt ccaaTgcca cggtgtgtgg 240
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aaaaattnca tagcttgcaa tgnctcaac agcatcctnt nggcctggag cttacattnt 480
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<210> 5749

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5749

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tttgcttgta tgtaaggatt ttatttctcc ttcacttata aaacttagtt tggctggata 180
tgaaattcca gttagaaaat tcttttctct aagaatgttg aatattggcc cccactctct 240
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ctcctgggtt cagccattc tcctgcctna cctnccacgt agctgggact acaggcgccc 480
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n 541
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<210> 5750

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5750

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ttgctactct ttctccttca ctaatttttc tctccttgga attaaagatg tgactgcaag 180
tcttagggca gggccagaac ccaacagatt tttttgtttt gactcagtca aagctgaaaa 240
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gagttctggg taacttgtct ttgcatttat ccaaaactga gttacagaca ctgatttaaa 360
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gagattatta ttttggtgat tcataaaagg gtgaattatc cacaaatttc ctgaacgcaa 480
gtcttggtct ggtgggaaaa cagcctggac ccttgggaaa agtccttcca gggctcaaaa 540
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564

<210> 5751

<211> 543

<212> DNA

<213> Homo sapiens

<400> 5751

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gggagggtta aatgtgaggc cagaacaaa tctcctgttt ccaggagctg aggatttaga 180
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ggaaaatatg ttctcatcct tcaagtcgac gtcaaagtct tcccactttt tgaagcttcc 360
ctgcctcccc cactaacctg ggtgtgaagg ttcttttctca gatgtgtctg gctactttgt 420
gccaggctcc ctggtanaag cttgattaat gctattcatt tcattcttac ncaggnattg 480
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nca 543

<210> 5752

<211> 471

<212> DNA

<213> Homo sapiens

<400> 5752

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actacaggca cacatcacca cacctgggtta attttattta tttattcatt tttgtggaag 180
ggtctcacca tggtgcccag gctatacaag gcttaatttt aaaatttttaa atcagccggg 240

catggagact ctaactgtaa tcccagcact ttgggaggcc gaggcaggatg gatcacctga 300
 ggtcaggagt tccggacaag cctggccaac atggtgaaac cctgctctac taaaaatata 360
 aaaaaatgag gcgggcatgg ngggtatgtg cctgnaatcc cagctactca ggagactgag 420
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<210> 5753

<211> 575

<212> DNA

<213> Homo sapiens

<400> 5753

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 tagtttagag atttgtggga agacttcaaa ggttaccatt ttcctctgtg gatctgtaaa 240
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 tcagggaaga tttcagctac ctacctatag gagaaatgcg caatcaatta ttgatttaaa 360
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<210> 5754

<211> 590

<212> DNA

<213> Homo sapiens

<400> 5754

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 tctaagaggt caccaggccc ctgatgacaa gctaaattca gattgacttc tatgtgtcag 180
 cccacttagg ccagtgcatt tgctgtatgt tgggtggctc tgaacacagc agaaagggga 240
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 ttcaaagggc agaataaacc atggggaatg ggaanggcc aagggccaaa agttncacc 480
 ttttgagtcc actnaccttn atctgggggn ggcncatatg ccaaacctg gcggangcca 540
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<210> 5755

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5755

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 tacaggcgcc tgccaccact ccacgctaata ttttgnattt ttagtanaga caaggtttca 180
 ccacgttggc caggctggtc ttaaaacttct gacctcaggn gattcgcccg cctcagcctc 240
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 tggcaaggct ttgcctgang agccntcaag ggatgggccc atgccgatct tggaaagttc 480
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<210> 5756

<211> 529

<212> DNA

<213> Homo sapiens

<400> 5756

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agtcttttct aattctgtga agaatgtcga tggtagttta atgggaatag cattgaatct 180
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ggtataggaa tgcttgngac ttctgcacat tgactttgat ctngagactt tgctaacgtg 480
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<210> 5757

<211> 571

<212> DNA

<213> Homo sapiens

<400> 5757

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ggcgtgtacc accacactcg gtattttttt taagagacag gatctcacta tgttaccag 180
gctgggtctca aactcctggg ctcaagcagt cctcccacct tggcctcccc aaaagtgatg 240
agattacaga catgagtcac ctgcctggcc tgatggtaaa ggggggtata acctgttggg 300
aaataaatta ggggttagatc acactaactt caaaatgcaa tcatgatcat acatggtaag 360
ttcctcaaaa aattaaaaat aaaattacca tattatccag caattctact tcaggggtat 420
atgccccaaa gaactaaaag caaggacttg aacagatatg ttcaatcacg aacctatgtt 480
catagcagca tttttcncaa tagtcaaagg ntgaaaccac cccaangcta tgggaatttgc 540
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ccggttaacc aaaggggat tttccttgg g

571

<210> 5758

<211> 540

<212> DNA

<213> Homo sapiens

<400> 5758

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aaggattgat gatctgtact gactccagat ggttatgttc tcctgatgac agatggaagt 120
ccaggaggcg gggccatccc aagtgtatgc cagcaagata tggttctact gctggtgacc 180
tcatagaagc agagtcacat ctggagaaag acatagctct catcctgatg ggcatctcct 240
gcccctgagg cctcagtttag ctgcacttgc cttctgcac tcctggggat ttactccat 300
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actctccttc ctgccactat atcatcgata tgggtggcct gggaagggat ggcatttatt 420
catgacnggg ggcaagtgtc cagatcccag atctaccgaa aatctttcat tctggtgggg 480
ccccctgntt ccaccttggg ngnccttcc ccnaacttta ttttaacaggc anggncatag 540

<210> 5759

<211> 556

<212> DNA

<213> Homo sapiens

<400> 5759

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tctggcccca agagcagctg gaaggccctg gcctgacttc accacttgat gtccaggctg 120
tgtgtgccac gctcctggct ctggtacgtg gtatgcagca cctctcgggc cttgggggag 180
ttgatcccct ccagccactc ctggtacagc tcctgcacgt gtgcactgga ctccggacgc 240
cgcacaggga tgtcagcgta aatgccttcc atctgccgca gcagggcctt atccgcatgt 300

ccgtctggag tctgggcttg gcctctgcc a ttttaagcatc ctcagcacag gcgaggacct 360
ccacaaagtg gaatggggaa cttgcccttc ttaagcttta aggacatgtc tggatgtttc 420
naaagccata ggctgcagca aagcgtacac cacctttccg tcttttaang gtgacctttt 480
ggaaagcttt ggttttaagg cttggnaagn gacctctcaa atcctngttg naaaagtctt 540
ggccnatgnt taaaat 556

<210> 5760

<211> 580

<212> DNA

<213> Homo sapiens

<400> 5760

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tatctacaga tattaagaaa aactttgggc tgcataattta gacataactg cttttttgca 180
atattgattt catattctac tgctaagatt tcttatatgg gatttgctgc atttcacaga 240
aatctatcta ttcaaaaatc acactcatgc tgattttgct agttcaaaag cagagatatg 300
accactataa ggaaagcccg tgttcacttg cattggtaat attgaagaaa taatacactt 360
catgggaaat aaatacagga tatttacaaa atctttggta aaacttccta agaagtattg 420
gttggggttg gttttccgga gaccagaagt ctnccttttg caccagctg gaatgcaatg 480
gcncgactcg gttactggna accttcgctt ccgggggttaa gccaatcttg ggcctaacct 540
cctgagaact gggattccga agcccgtgcc caccagntan 580

<210> 5761

<211> 521

<212> DNA

<213> Homo sapiens

<400> 5761

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 gcgcaatgag taacagtatc aggctgagca caggggacag tagtctgata ctactccaca 180
 tacgcaggta gttctgccgc tggcgagacc gcagcgtcct ttccaccacac tgcctgtgtc 240
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 agagcacaac cagcactccc agcacaatcc tggggcagaa cagggtggga acagggtgtgc 360
 tgcagagctc acggagaagc tggggccacg tctcagtagg aagacgatcc aagtccttta 420
 acacacaacg attctnaggc atatgngat cagctcatcc gcattttttg gaatcnaaaa 480
 ntngcagggc atttggttca anaattatit tctaantga c 521

<210> 5762

<211> 533

<212> DNA

<213> Homo sapiens

<400> 5762

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 gtggcacaat ctcggctaac tgcaaccttc cacctcccag gttccagcga ttctcctgcc 120
 tcagcctcct gaatagctgg gactacaggc atgcaccacc atgcctggct aagttttttt 180
 attttttagta gagatggggg ttactatgt tggccaggct ggtctcgaac tcctgacctc 240
 agngnatcca cctgccttgg cctcccaaag tgctgggatt acaggcgtga gccaccatgc 300
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 atcgtactag tactcttcaa ctgaatttta accttacttt gaaatattta tatctggctt 420
 taagaattta aatgaagaca tttcacagg actaattcta gaaaaaaggc tctgngngac 480
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<210> 5763

<211> 462

<212> DNA

<213> Homo sapiens

<400> 5763

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gggtgggagg aaggatcagc taaatctgag ggaagaagaa ggaaaggaga gggactattg  120
catagcagat gcaaatagaag ggacttgggg ctagtcagga agaaagggaa agggaaggaa  180
ggcaagagag aggggtgaag ggaacctcag gaaggggtgt taaggacaac cggaaaaatc  240
atctagtaat aaaactacaa acagaccaa tatatataat attatatatg tataaataac  300
agctggctat ttacaggggg acacacacac ggacacacac acacacggat ccaggggagt  360
gggggctgaa agatatggct gataggtgga ggaacggctg agggttgggg gagaggccct  420
tcttctaggc agggcaaact cctccgggga ttttaannnnn nn                      462

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<210> 5764

<211> 513

<212> DNA

<213> Homo sapiens

<400> 5764

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gagacagagt ctcactcttt ggcccaggcc ggactgcagt ggcgctatcg cggctcactg   60
caagctccgc ctcccgggtt cagccattc tctgcctca gcctcccgag tagctgggac  120
tacaggcgcc caccactgcg cctggctaaa ttttttttct ttctattttt agtagagaag  180
gggtttcacc gtattagcca ggatggtctc gatctccga cctcgtgatc caccacctt  240
ggcctcccaa agtgctggga ttacaggggt gagccaccgc acctggcctc cccttttctt  300
tatagcacct tcatacttaa caccatgaca tcaaatgaca acgtattcac acagaaagca  360
ggcattttgt ttactggttt atttatgttt acttatgcaa ccaagagaac ctatatggct  420
gtcatgggag ccctaccttt tagaaagaga acaaccncat caggacaagt tntaaaacac  480
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<210> 5765

<211> 543

<212> DNA

<213> Homo sapiens

<400> 5765

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ggatattaat cccatggtgc aaggatttcc tgcaaagtac ctttaatgtg tttaaatcag   60
cagcaagcat taggacatgc tatTTtggcc ccataagtta ggtgtgtagc actacacatt  120
agacaccaag tcatcccaac caatatttat ccatatgaac agataaactg aacaaaaaca  180
tagttctgat aaaacctgca ttcacaacct aatgtagttt aaagtaaatt ttttcacaat  240
tgagggtgc tatttaggac tgttttgta ataataaaaa caggaattat atagaagata  300
aaacaccatt ttttactgct atataatgtc ttgctatata aaacataccc tcaacaagtc  360
aaaatattta aaaccagtgt ttcaaatacc aaaaatcaca gctatgttac tgggtcaagta  420
acttcactca ataaatggta ggactggant cttggangga aaaaactgna gccaagncag  480
nacctttaag ttggnctcca aggtttaaaa ggacggaccc tactttgnaa acggaaaact  540
gcc                                                                    543
    
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<210> 5766

<211> 556

<212> DNA

<213> Homo sapiens

<400> 5766

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aacatcttgc tgaaattaca agttaatgtc tcagaaacag aattcaaact cagatttgtc  180
tgactccaaa acgtactttg tagtactagg gatatactgg aaaagccctt cagcctttta  240
tatagtcaat tgtctgtaaa aaggacacag tccaaacaat gaactgttaa catattttac  300
attattgaat atatacatgg agactgtaaa gaggtaaaag ctctaaaaat aatggattca  360
cagaacttga aaataaagtc aagactgtgg tctctctctg aaactgaata gagtaaaaca  420
    
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gacgatgaag aaatgagcta ttgcagagg taataactta cccttaangg naaatttcaa 480
 atatcttttt tttttttttt ttgggaaca aancctgntt tggcaacca gctggaannc 540
 ttgggcccaa ccttag 556

<210> 5767

<211> 523

<212> DNA

<213> Homo sapiens

<400> 5767

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 ttctgtatgg caagcataaa tcaagctcag tctgggttat ggagaagttg aaaattgttt 180
 tgttcctcat tagtttataa ttgtatgaaa tacgatttta atgaaaactt ttcagaattc 240
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 tatggttttg tcaataaaac actatgatgt tggctctgtt ccttttatat ctcaagtctc 360
 aaaactttta aagacagtag atatttngg gtttctagct aaatgagggc caagattgga 420
 ctttttcaac taaattgaat catgtagtaa tatctgattt catagcttcc tgggggaaaa 480
 aggaggatt tggaatanca nncntgcang gcaggacnng taa 523

<210> 5768

<211> 537

<212> DNA

<213> Homo sapiens

<400> 5768

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 agcgatcata gatatgtgga agccaatagt cattactagg gatcatgatt cgaaaaaaca 120
 gcctctcttc aatgatcctg aatgagccct ttgaattcct ctcttgcaac tgatctcccc 180

atggggagtg gtgagggatg ggtggcagga agggacccta acccaaagta gttcagagcg 240
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 tccccagctt tctatttcat ttgctaacct ctctaggaac aactggatgt tgtaaagtgt 360
 tctcatctgg ccttaaaatc catgaaagct ggaaaatcac aaggcatctg ngcatatact 420
 ggtggatttt aatgagaagc ctgggggttng agcccngaaa taaccngctt tanaagccaa 480
 gtagnaaagg ccctggattt tgacctggcc atgggnntac ctatttgagg ggggatg 537

<210> 5769

<211> 531

<212> DNA

<213> Homo sapiens

<400> 5769

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 gcctgcttcg tgctgccatt cagaacaggc ataaaaagca aatcatttac tttccgaaa 180
 cagagtccag ctgcacagag cattcgcggt tattcccttg ttctatcatt ttctaccacc 240
 caacaacatt cagcaaaacg agttaataat agttactggt gtttgaggaa gggtaaaaaa 300
 ataaaataaa ataaaataaa actaaagaac acacatggca gagatacgat attactgcaa 360
 aagcagggtga atgcgggaac atccttggct tgccaggctt tatgtgaagc ttgcattttt 420
 cttatccttg gctttcttgg ttgctgggc cccaagatgc tgggcctggg actgtagtaa 480
 ctgaaccggt ggctttcttc ttctggaaag tggtcacctc cttcttaagg n 531

<210> 5770

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5770

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 ttatacttta agttctaggg tacatgtgca caacgtgtag gtttggtata tatgtataca 180
 tgtgccatgt tgggtgtgctg caccatttaa ctggtcattt acattaggta tatctcctaa 240
 tgctaaccct cccactccc ccaacccac aacaggcccc ggtgtgtgat attccccctt 300
 ctgtgtccaa gtgttctcat tgntcaagtc ccacctatga gtgataacat gcaatgtttg 360
 gttttctgtc cttgcgatag tttgctgaga atgatggttt ccagcttcat ccatgtccct 420
 acaaaggcat gaactcatca ttttttatgg ctgcatagna ttccatgggg natatgngcc 480
 ncaatttctt aatccnggct atcattggtg gacattttgg ggtgggtccc aggctttggg 540
 tattggga 548

<210> 5771

<211> 540

<212> DNA

<213> Homo sapiens

<400> 5771

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 ggaagagccg anaaactgtg tgaccggggc ctcagggtgn gggcattggg ggctcctntt 120
 gcanatgccc attggcatca ccggtgcagc cattgggtggc agcgggtacc ggtcctttct 180
 tgttcaacat agggtaggng gcagccacgg gtccaactcg cttgaggctg ggccctgggc 240
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 gactagtggc gccttgaana ggaagctgag cagggacagc acggggtgga aaggctgcgg 420
 cttngggtcc atgtcagtgc aaaaacttac gcccttggac annttgggca aacaacgctn 480
 aggtccaaca ttaatgggtg ccggncaaca ancgaggtct ttaaaccgtg ttgggcaaan 540

<210> 5772

<211> 542

<212> DNA

<213> Homo sapiens

<400> 5772

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agggtctctt ctcctgcctt ctcattatta tggggttttc cttcttctcc atttattttt   60
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ctcttatttg aattttctga gtcactgctc tcagaaaagt ctgaaacatt gtcagttcga  180
agtcttttca tatttagttt cttttcatcc tcctcaggtt tccttctttt attcatcaag  240
tgtttgtttt tacctttagg attttctcct cgtgatatat aatcatattt ttcctccttc  300
atcttctctt catctggtat actgctatct gagcccttcc tcttattcgg acggatactt  360
ctttgttgct gttgctgggtg tgtattctgt ttggtacag cagcttggga gttcattgct  420
ggctctgggac tatttgcttg gcacctgtat aaaggctgng aacagcggtt gacgtttgaa  480
tggcacnaaa ctgcgtcgng atgtaatgcc aaaatttcan ccttttaaca aagagggggac  540
ca                                                                    542
    
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<210> 5773

<211> 280

<212> DNA

<213> Homo sapiens

<400> 5773

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acatttttat aatgngtatt tattattcaa atagcttgac agcaaagtgt tggaaaacga   60
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catttccttc acttagtcca cggccactcg gcgctcatcc ccagcacagc cctccccagg  180
ccgcggcaaa gactgttgct gtcctgctga gggatgtgcc cccggggatt caatcgagat  240
tctgtaagat gtgggggatg tgggtggcgg ngnggnnnnn                          280
    
```

<210> 5774

<211> 403

<212> DNA

<213> Homo sapiens

<400> 5774

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gaacaagaca aagatgaact ttatngagng ttacaacagc tcagagacct ccagggggta 60
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ggagaggatg gctcctctct gcaactgac gccctaangt ctgcagctct cagaagagag 180
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gagggtaggn cctttctgca actggctgtt ccatcatctc caactatcag cagagagggt 300
agctcctctc ttaggcttgt tgacccatag gtctctgccc tctgggccct ctggcagncc 360
tntgcctac tntggctgaa cccagggttt ttanggnccn ccn 403

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<210> 5775

<211> 549

<212> DNA

<213> Homo sapiens

<400> 5775

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caggggagtc aggatgactg gattgggggg gtgttgggggt aagggtcca aaccccagca 60
ctgcattgta ttttggagga cgacctctct tccgggtccc aggggtgcatt gtgctgttta 120
ggtatgtcac tgcactcttc ttacgctctg gctcaaagac tgcctccactg tagaccggat 180
ttgctgttgt tcttcttttt cgctcttgcc tcttgctttg gatttcttct agatgggtcat 240
gtgttaccaa ccctagagac accatgaagg caagtttctg agggttctcc tcccgttttg 300
gtttgggtgc agcaggtggg gtgatgggtgc ggctctctgt ttgtttctca tctgnttctg 360
tgtgagattt aactgtctgg tttcaagac ttggcttgct aagctgtaca agtttgaagg 420
ccaacnaagt ctgggccctg gagtancat cacaatgctg gtgancgtgg cccatgggga 480
aaccgtttgg ctatggttgc antctgncca ttgacnacac cggaccgggt ggattggaat 540
ctgggatng 549

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<210> 5776

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5776

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cttaatatg agtttattag ataaagacaa gaaaaaatgg ggcttgggga aattggggct   60
tctggggttt taaggagcat gctgaaagaa cgtaagaaac aaaacatgaa gggaaatgga  120
aatgttacc cactccctt cctccctgct gtccagtgtg gatgccacct ccagcctgca  180
ggacggagcc cctcccatc atcacacagt gcacctgggc tctgcagccc cttgcctcca  240
ttgcagccgc agcaagaggc ctccacttgt ccgtcaggga cgctccaagg aaggaaaaag  300
ccgcccccg acaggggaga ccactgtgtt ctctgtgggc aggtggggca ggtgctccag  360
ggaaaggggg gctgaggtag ggggccctg gatcaggcac ctgatcccaa aagtgggcct  420
tggtctttt tcctggactg ggaacttcgg cagaagtcan gctncacaat gngccccaca  480
atttgagaaa ggcttccta acnttggccn aaggaanttn cccccaatt          530
    
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<210> 5777

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5777

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gagtgtggaa acaatgggat tgagctttta tcttagggaa aacttttaca agaaacagtt   60
cactgagagg gctccagaaa gttattgtag acctggaaac tttacaactg ttcctcatgt  120
ccagcaaaag caataacatc ttcatcttt aaagctttta ttctttaagc aatctacttt  180
aatcacttca aggcggtgat atcattagat gttacaaaat taaagagctg ggctacataa  240
tttttggaa tctgcaccaa agaagccatt cacaatggaa actgtggagt ttcggtagat  300
ggcactcttt tctctgagtg acaactcaag gtccagcatg tgaccgtaga tgtagaacag  360
gggctttcct gaggagctgt cctttagcct caactataat cctggtaaac tcacagccaa  420
    
```

tcatttttaa aaagaagcct gtagataaga catcaatcca ggaatctgaa gtagttnaga 480
 ngcatttaaat cacagncttt ccttctttcc agaaatggtn cagnngantt ggtttctttt 540
 t 541

<210> 5778

<211> 539

<212> DNA

<213> Homo sapiens

<400> 5778

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 aagagcaata aaactgtcct tgggaagagc ttctgacacc agtgatggct gggaggccca 180
 tgtgacgtgg atgcttggga tgttgtcatt gacatccaga accttgatga gaactttgca 240
 atgggctggg ataggattgg gaccaggtc cttgcctga acatccacct cgtaggcagg 300
 gttcttttca tagtctagag gtcgacgcag aatgacctgg cctgtcttgg catcaatact 360
 gaaggtgtcc agcacctctg gaggcattgt cttactgagg aagaactcca cctcccattg 420
 gggccttggc caaggtctgt ggcggaatt ttatgagaag cgtaccaagt gccanatttt 480
 cttggatttc aagggccagg gaacttttan naaacnccng ggttttggca atggggcca 539

<210> 5779

<211> 493

<212> DNA

<213> Homo sapiens

<400> 5779

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 caccaggcan acagagggga ggccacccca ctgcaaaggg tcccagccag ngggcaccaa 120
 cctcaggaan acgtgggtccc cacctggagc ttccctcggn tgccctggcc cttgagcccg 180

tcctgaggat ttgngctttg actntgacag ggagcagcag gaagctgcca gcccactgcc 240
 tccatgcggg tccttgagg gcanacggtg gagcggcgct tcctnagctc ccgcggtcag 300
 gccccatcag ggatggccac agtccagcca caggggcgac tntgcccac agtccccctg 360
 gggcagcgac canatcctgg ctggggcagc accggacagg cccntntat gggcctaagg 420
 gcaatgcaag tgggggcttt gttggggcca agncaatgga cccancccta ngaancccta 480
 attggcaana agg 493

<210> 5780

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5780

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 ttagctcatt aacctgttta gtaaagatct gctttaaaat gcctgatgct gtgcagtatc 180
 atacaaaaca atcttcagcc ttcaaagcag ctgatgcacc ttctcagaga tctgtttgtc 240
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 acagctagca taaaagctac tgatatactg gacagtagac agcaaacagg gtggatttgc 420
 ctttatcaac acaaacccca acacaggacc aaggcattcc gggttcanggg cagaagtcct 480
 cattggncag gcttaaggag gtcataatcg nnnagcccat tttnnngatgc 530

<210> 5781

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5781

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 tgatgtacaa actggnggggt canatcgtct cctntaacat gacgctacac tgnCGctgag 180
 gaacacattt aataacactt canaactgaa ctgaaacgtg gcacaaacat gacaacttcc 240
 aggcatgcct tcaagcgtct ccctnaggag ggattcgcaa cccctanact tcagtgtggg 300
 gaggattaca attcttttga agaataaaaa gttcacactt ttgaaatttc acagaagaat 360
 ttttaaggcca aaacatagtg gggttcatttc tcttcacttt cagggacaaa tctgagcttt 420
 ctnaaacncn attaagcttt caggtcnaat cccaggccaa ccttgggacn tctngactgg 480
 aagtttttcc catcggttta aagctgataa aggcaatttg gctcctagga agaanaaaanc 540
 c 541

<210> 5782

<211> 529

<212> DNA

<213> Homo sapiens

<400> 5782

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 ttgccgcaa gtttgtgatt gtcacgagtt cacaagtttg gaatcctggg tctgggccgt 180
 gcagacgtcg cggcgccgcg ggctagcgtc ggtaggggtg gaacccttgc acgttgttgt 240
 tctgccctcg tccaaagccg ctgccgccgg cgagggggcc ccccgaccct ggcacggagg 300
 gacccccgta ggaaggaggc tgctggctgg ggtctgagaa gccctgtccg aagccactca 360
 agtcctgccc gtaacctgca tactgacat agggaagtc tggctganct tgtcgggggc 420
 ttgcttatgt cgggggcacc tgaaacggaa gccgtgggaa agnccnaggg cttgccccgg 480
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<210> 5783

<211> 494

<212> DNA

<213> Homo sapiens

<400> 5783

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cagtaaacca ctttaccaat taatctttta ttttttattg catacatcaa tatttaacag   60
aagaaaaata aagaaccctt aatgttaaac tgaattacat gttatcttct gattcttttc  120
aatgtagacc taaattttca catgtatcag taaacacaat ttatgttctt attaacattt  180
ttgaatctca cttttttgca tacaatttga catatatcaa tattattgaa tggctatata  240
acattctgng atagcactag caatacacca aaatttactt aaccatttcc aatcggttggg  300
cttttttccc ccttaaagtt atctgagtgg aactgctaga aaactttgta caaatagctt  360
ttctttcttt taaatatttt cctgggcata tgccactcaa agtgagtatg tcaaaagatc  420
agttataaag ccctttttat agncttctac acaggtctct taaaangntn ctaatcccca  480
tgntgntggt nttat
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<210> 5784

<211> 485

<212> DNA

<213> Homo sapiens

<400> 5784

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tcaacattcc tttcagtgcc acaggttaag aacttggaga actggcttcc ctgaggagct  120
tctagctcca gaggttgtag atgctcatgg cagcaacaac ccattgacca cttcttcaaa  180
gtagttcact gccaaaggaga atcaaaattc aatttggatt cccaatactc agcctacctt  240
caatttccca tcaagcctat attcttagcc tttagtttaa gtgtgggtta tcttaacagc  300
tcacttggcc tcagttcaaa gtgaaatttc ctgagtcctt gaaagaagta gaaaccaat  360
caatgagttt ttctcttgat ctctactttg tgagaaggat acatttctag aaatttcaat  420
acctttcaag ngtcagaang gaatntatgg aactggtgga aattgcnang gnnggataat  480
aaggg
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<210> 5785

<211> 512

<212> DNA

<213> Homo sapiens

<400> 5785

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cttatcaaaa gtttgtttta ttttcaatac aagataaata ccatgcttgt tactagtgca 60
gtttaaggcc gacaatggcc atatatcaaa ctgccgaaca gtcacctaaa tgctaaagaa 120
aggaaagaca aagtaaacad taaacacaaa attgcaatta caaacatttt aataaaatgg 180
aatgagcttt ttaattgaag ctaatatgaa gtctaattct catggacagc aaaaaaaaaa 240
aaaaaaaaaa agtctattan atcaattatc accttacctt tttgcacana aatcttattg 300
ngaagtcacc atagagtcaa tagctaaaat tttaanactt tctttggcct tctgatatta 360
aacaatttat ttacaaactg ngatcagtaa ttcggggata ttgggtaaaa tgatcaattt 420
tttggtggtg ntggtaaggg ctttccatta aaaattggaa aaccacnttt gnanggttga 480
ncaggcttga aactaacttg ggtaaanatnc ca 512

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<210> 5786

<211> 542

<212> DNA

<213> Homo sapiens

<400> 5786

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gtttaaccct agctaaacct cataactcct taatgagaaa gacactaata atctacaaat 60
aatattttac aaatgaaaaa acccaagcac taaaaagtta tgtatcttgc cctaggtcac 120
atagcaagtg aaaggtcaga atcttaacac tgctattctg accacttgta ataccttctc 180
taggcttaag ataataaaca aattaagcaa gggatatgtc tttttatttt tccctttttt 240
gtttgtttgt ttgcttgctt gctttttctt tacgtagtat tgctgtgcta ggcacatgtt 300
agtatctcaa cgaataattt gtattcagct ttctattaag cacagctctc tacaacctgc 360

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attgttaaac atttatagtc aacaacatga tgtaaattat gacgacctga agacattgca 420
 agataataga gtcacttgaa gcatcaaaga aagattaaaa tatgggtcatc tnggccctgg 480
 actgcgaata ntggngggg ncnaaagcca gggaaacttt ggccanaaaa ggcagggtccc 540
 gg 542

<210> 5787

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5787

cactgatgac aatttattat aatctgttag tagcacacag acaaataatta gttaaaccag 60
 aaccatgtct acacagaagt gggcaatgac atgtgccatt ctatggcaca cggngtgcac 120
 ttaatcatca tgtttttagca ttttgatctt ctgcttaagg cgctcaattt ctttctgcag 180
 acgtcaatc tccttcttat gatgaacgat ttcttcttca tggngttttt tcaaagctgc 240
 cagttgttct ctactctgng ctctacaagg acacgggtggc tcagggttta atttcaatcc 300
 ttcaccccaa agagatctca aagcataacc tgtaatgtct aagcaaggaa taggagttcc 360
 aattccatgg gagtctagct ggtcatcctc ttctactcct caactagtga aagaataccc 420
 catcttaaatt tgaggnggag ccatcttaag aagaccaaag agcttattgc tttcaaattc 480
 cctttaaaan ggaaactccg aaagaatggg cccaggncct aatncctntg aggggaacac 540
 c 541

<210> 5788

<211> 475

<212> DNA

<213> Homo sapiens

<400> 5788

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acctctgcct cccgggttca agcaattctc ctccctcagc ctcccagta gaggcaccca 120
cgaccacacc cagttaactt tttgtatatt tagtagagat ggggtttcac tatgttggcc 180
aggctggtct tgaactcctg acctcgtgat ccacccgcct cggcctctca aagtgtctggg 240
attacaggcg tgagccacca caccagcca ataaggctcc tctctttacc taaagattga 300
ataaccaca caccactgac aaccttctt ctatacagt gaggtaggtc aggaaagagg 360
aaatataggt accaactagt aacgaatagg ggaccttatt aataggtagt aaaagcttaa 420
actagattaa aagaangntc ttttatatta aatanccaat tnnatttta aggnn 475

<210> 5789

<211> 431

<212> DNA

<213> Homo sapiens

<400> 5789

gcgtgtcgt ctgcttttat tacctccan actgagcccc cgacctggcc cagcctggcc 60
cgtccccaat ccannnggct ggccaggcca cctgcaccag ggaggacagc tgctggcagg 120
gactaataaa cccttcacc tggccatggt ggtggtgttc tctatggacc gaggcctga 180
aacgcgggca gggaggggca gagaacacac tagcttgggg gtgggcacca gcctcagacc 240
cctcagcagc tttgggccct cggccgactt tcccaggcag tgcaggctag cccagtccag 300
gagtgtgcag cctggcttgg gtcgagctct gtcacatctg gataagcaac tgggggctga 360
gagtcccagg gcagcctggc ccagcaggtc aaggcgccac agggggccat nangnccagc 420
tngnncangc c 431

<210> 5790

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5790

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 acttcagcct ctgattgggt gcagaaagca ggccgccact tcatttacac cgggtgaaca 180
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 tgataacaca ggtagatac ttcacagcct gctactgagg gatgctgtgg agcttccagg 480
 gccaggatc cttgggtgat ccacaacttt tcaaggggnc ctcagcactn tgnganccca 540
 cgtggcagcc ttcttcn 557

<210> 5791

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5791

cctgagacag ggtctcactc tgccaccag gctagaatgc agnggcttga tctcggctta 60
 ctgcaacctc tgcctctcgg gttcaagcga ttgtcctgcc tcagcctcct gaggagctgg 120
 aattacaggt gcatgccacc atgccagct aaattttgta ttttagtag aggcagggtt 180
 tcattacatt gtaaaggctg gggtcgaact ccttacctta ggtgatccac ccgccttagc 240
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 ctgctcgggt gctgtatcat tccaggcaag tcactttgtc ttgcattgcc tccaatttcc 480
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 atacctaacc tnc 553

<210> 5792

<211> 556

<212> DNA

<213> Homo sapiens

<400> 5792

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cggactcact gccagtcaga aggtctgctc caatgttggt taatgaattt acacgaaccg   60
caagggaaga tgttttagtc aagcattttt aattcttggt atcaaagcgt ttttcatgga  120
tgggtagtct ataagatttg caaagggttg aatgatgttt agacagagct cctggatctg  180
aatggaagga gcttctagtg ctctgtaaac catgggtaga acactgttct ttatctcatc  240
aggaggggtt ttggtttagta gcaaatccat tttttgtagg aaaattaaca aaatctggat  300
tggctcctgc tgcttaaaca cagggccaaag ttcaggaaga attaatttga catattcttc  360
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gtttacaaat tctgaagtca aacaaggcaa aattctctgc acaatgacac gcttgggcag  480
ttttggtaga acctttggca gcctttgaaa aactggggat ttctgaagat tatctctttg  540
gaaaaaggga tnnaaa
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<210> 5793

<211> 560

<212> DNA

<213> Homo sapiens

<400> 5793

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agtgtgttta aggctatata gttatattat ttataatcca gaaataacaa aaatgtccaa  180
ccagagggaa ctgattattg tacagtcatt tcacagaaaa atccctccat gcagacatta  240
aaaagaatgc agttgttctt tgcataatga tttctaaaac aagcaagggt tagaaccata  300
aacaaaagca gggaaatttt gaaaccataa gcttttgtaa agcccttctg taaagcagaa  360
taataccaca ctcatgcctg tggccagtac tgtggctgga acatcatggg cgcacaataa  420
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atatgtgttg agtgggtgaa agcacttgca tcttactgtg gcaaacaggc caacaaaatg 480
cagatcatta gcaatgggtt ggagaactag agcaaaaaaca tacattccat taatttggct 540
ttcattcccc cgaaagggt 560

<210> 5794

<211> 554

<212> DNA

<213> Homo sapiens

<400> 5794

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tggtttatga tcttcagtct gtttcagtg ctgcataact agataacgta tgaaggaaaa 120
acgacgacga acaaaaaatt aattgcttgg aagacttagt tgaatctatc catgaaaaca 180
gaatcaatta aacatgtatg tgttacttag actaaatata aataacccat ataaatggta 240
gctcaaacat ctcaagtgtt tcagagaatg ttagaatcta ttgtttgaag tgtctattgt 300
actctatgca agttctgttt ccaaacatta gtattagttg gtgatatttc cccttcatag 360
ggaaggtaaa aaaggtttgt agagggtggca aacaatattt ggtttaaact agcaggagac 420
aaaggaattc caagaaaggc aaaaatcctt tcagtaagtt ttctgaggaa aatgcacaat 480
atcttcaaac ttgccagctg gtagctagta ggcagcaaatt ctggatttat tctcaaggct 540
gctgctggat ttgc 554

<210> 5795

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5795

ccttgagaca gattattgct ctgtcgccca ggctggagtg cagtgggtgtg atctcagctc 60
actgcaacct caacttctg ggttcaagta attcttatgc ctgagcctcg cgagtagtag 120

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atttgtttgg ttggggcctt ataatgtcat agaaaatgtg cattttgagt ggttaaaaaa 480
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cccggttaa aac 553

<210> 5796

<211> 560

<212> DNA

<213> Homo sapiens

<400> 5796

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caggtccagc gacaatgatt ttagcactca tacagggtggc atttcggtca gtgcatgatg 180
attcagtggg cgaagcattt cagatccttg tctcatatca cacctcgaaa tacattcctg 240
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aaaatacagt taaatggcaa atgatgcatg aggaataatg atttacagtg aatatgttac 480
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aaatgccttc ttagataaga 560

<210> 5797

<211> 550

<212> DNA

<213> Homo sapiens

<400> 5797

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 ccttcctcac agattgtact gagtatttca tgagatgata tgtgtatgtc aggctgtgtc 240
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 tggacattcc tctcactgac agatggggca caggtcaatt ccccttgaat ctagggacct 360
 tgtgactatt tgaccagtag aatgtgcagg aagtgatgcc atgtgacttt tgagactagg 420
 tcatctaaac gatacagctg ccacctgact ctactctct atactcgctt tggaatccag 480
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<210> 5798

<211> 498

<212> DNA

<213> Homo sapiens

<400> 5798

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 tacagggtga tgccaccatg cccagctaatt ttttgtatt tttagtagag acgggggtttc 180
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 cgttgaaaaa acaatgagtt ggtaggagaa gcctcggatc caaggacaaa gacaatatca 360
 ccaaatagct ccaaaattac aatgaggatc agaagcctgg aaggatgggg tggaggtgag 420
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 actngngcca tncnct 498

<210> 5799

<211> 328

<212> DNA

<213> Homo sapiens

<400> 5799

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ctagcaataa agggngagca ttaagttttg ccataatngtt cacacatgta ggcgttttct 180
ccagtatgaa ttatcttacc tacaangaag ngngacaacc atttaaaggc tttatctcac 240
tcttcanatt tctaggattt ctcaccagta taattacttt natggttaga aaagttingag 300
gcgttgncaa aagtagncac atctttct 328

<210> 5800

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5800

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aggtttattc ttaagtccaa ttcatattat tactggccca catgtagtca gagttcagcg 180
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ctaatttatt tggcaacca agttgctgac tttggtatit gatgctctga taataggatc 420
ctacaaggga atatgttttt accaattata tgtgaaacaa caggaaaccta tttaaatgnc 480
tcattttcct tttaaatgca aagtttataa ctgnggatgt gaaatcaaata taaaggcagt 540

tgtganctta agttatcccc ccn

563

<210> 5801

<211> 554

<212> DNA

<213> Homo sapiens

<400> 5801

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 gagtaactct gcatgtttat attatttgaa atttgcgatt catttgtttt accggtcttc 360
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 tttccctgag acaacacagc cnggattacc tatattggna tgnttgatga cccaggttct 480
 gcctagnct cctttaacta ngacttcacc aaatgttccg cctgggcttc aacaatctat 540
 cagccttgna aan 554

<210> 5802

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5802

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 agttaattcc cacaggtata aattattcaa atagccattt atatcttaat ttacagtaat 180
 caataaataa gacggcacat tcatatattg ttataaaga tctttttttt tacaagcta 240

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 cctgaggatg tacagtaggg gaacgaccat ttttccngt tcacaatttg gctttggcgg 540
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<210> 5803

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5803

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 accaatccac gggggaaagg ccaccagcac ccatcaggct tcccactggc accctgaaaa 180
 cctgcccagg ctgggccgcc agcgtcgtcc acaggccttg gccagcgggg gccctcaggg 240
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 gatgctctgc cgggcattcc actcctnctt gggcatgggc ttcattgggct ggattcggga 540
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<210> 5804

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5804

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ttacaggcat gtgccaccat gcccgaacta tttttatat ttttagtag agacagggtt 180
tctccatggt ggtcagactg gtctcaact cccgatctca ggtgatccac acgcctcggc 240
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agagacacat tcttctctca gagtctgct gngcttctgc taatacatgc agccttgggg 480
acttatcgac agcacaaagc cagcatttct nctttctcag agaaacatta aggnacctgg 540
actggcgata gggttinctg atn 563

<210> 5805

<211> 446

<212> DNA

<213> Homo sapiens

<400> 5805

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gaactattta ttttactttg ccagtaatat ttagacctta tatactttc attatgccat 120
cttatcttct aatgtcaagt gaacagttgc taaactgtct tctgcattta tcacattaaa 180
aatgtctttc ttggaaaatc ttcttgatat gaataaagta tcttttagag ccatcattta 240
aagcaggttt ctctccaaca cgagtctgct gaggtggtgt gagctgtgaa ctctggctga 300
aggctttccc atacacactg caatgacatg gtttctgacc agtgtgagtt acctgatggt 360
gaataagggt tgactttcca ctgaaggcgt ttccacattc ttgacattna tagggctttn 420
cccnagnatg cattatcnga ncttna 446

<210> 5806

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5806

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cagaagtga gaggaggaggc acaacagctt ttaaccatct cagtctggaa gtggttccaa 180
aaatgtctct tccttttaca atctattgtc cagtagtcac atgggctcaa tctaattgca 240
aagagaagcc ccaaaatata agaggacatg tggatatttg gagaacttaa attgtctctg 300
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ctcagccctt gnatgtttga aaggtaacca atatagtga gaggtgaag gctaacacat 480
tattcaaggt ataaaatatg cattcctaac gnggcctgna taccatagat nctatttagc 540
ttngnaaacn tttatgggng c 561

<210> 5807

<211> 559

<212> DNA

<213> Homo sapiens

<400> 5807

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caggtgtgtt actgaactgc atgtttttta ttctttcatt taataattgc ttctcaggta 420
ccagatagat aagcttattc tgatattcct gaagttcctg gtgaagtgtc tgattccata 480

anttccaagt cacactgnntt atccagaact ttcagctcag ctttggagtt gctttttgag 540
ccggacatcc ggaagctgg 559

<210> 5808

<211> 533

<212> DNA

<213> Homo sapiens

<400> 5808

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cctctatcag gttttgaggc ggggtgagcg ccgaggtagt gggggctggg agggtcgagc 180
cgtcaccttg ctgggtgttt tgcctgggt gttgggctgg gaggggtgggc ggccgctgga 240
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ggctgtgaat gtcctggggc tgcacctgtg gctggacctg tttaacggct ctngcttcct 480
gctgcaactt nacctgnctt gggcccctng gaatggncce nggggctgnc ctt 533

<210> 5809

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5809

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gtgatttggt aattcagaaa agcagctgaa gaagcatgga aacttcccta caagtatatg 180
gccacagctg gctaagggtg gagacagtat tctatccttg ggcctcagac tcacatatgt 240

atgtacatac acatattatt cacccatatt tccttccttc tcccccccc catctgtaaa 300
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 aaaaagatca ggagaagcaa tctgcttttt aattttactt atgcaggtaa gttttttaag 420
 gatacagtca atttggtttg gcacttttga actaagaggg gatcnggtca taaaaaaatc 480
 taccaactct nagegaaact gaaatgaggt ngacngaaag ggntcccatn cataaagggt 540
 ttaaaaatta ccaagnccaa ttt 563

<210> 5810

<211> 318

<212> DNA

<213> Homo sapiens

<400> 5810

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 aacacttttc cagaatacaa ngctcaagaa atgtaagcca gatcccgctt gtatgaggta 180
 tcttaagtag tcagactctc aaaancagaa ngcagaataa ngngngccaag agctggggca 240
 ggagggggga aggggaaaag aggagttgtt cgggtgggtat agaacttcng aattcangat 300
 ganaaagttc cggnggnc 318

<210> 5811

<211> 571

<212> DNA

<213> Homo sapiens

<400> 5811

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 aacaagtaac aaacatgggg gagtgtgaag gtccctgggt catggctccc tgagggtttc 120
 cctttcattt ctaaggnggg acctcagatc tcttctccag accaaggagg ccccttccat 180

tgagaaggtc actcctccca cccagagat ctagaagcaa agttggggca caacaggtgg 240
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 cttcagacag tgacacccat ctcataagta cttcctcaaa ggccaggggg actgctgcct 360
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 caagactggg tcttctgact ttccaacacg agaaatttgg cctggaaaga aggcaagggg 480
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<210> 5812

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5812

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 taaacttaaa ctttactttt aatggcttaa actagcacta aaatgtttaa tgtctcactt 180
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 tcaagtatgg gaaaaaggtc ctggagaata atggttccaa tacttttcat tggcatctta 480
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 cggacnnatg gng 553

<210> 5813

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5813

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<210> 5814

<211> 555

<212> DNA

<213> Homo sapiens

<400> 5814

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<210> 5815

<211> 577

<212> DNA

<213> Homo sapiens

<400> 5815

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cttacaattt ccatagtcaa aaatcaaagg caaataagta atttcaattt ccctttggaa  480
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<210> 5816

<211> 538

<212> DNA

<213> Homo sapiens

<400> 5816

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gagaatggac taatatagta cattgagtgg agtgctgcta taaagagacc caaaaatgta 360
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<210> 5817

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5817

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<210> 5818

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5818

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 tctgcaaagt gagtccagaa cctggacttc tagagttagg gggatatncct aaacttcctt 480
 tcactaagac attcatgata gccagtattc caaaggggnc cttcttataa nactnggccc 540
 aggcttcaan ttctggggan gagg 564

<210> 5819

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5819

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 tgttgaaaat ttcagccttg atttgaaaca tgacctgcat gacaggctat aagttgtcaa 180
 tagttctttt tctttggaaa agtacagttg tggcatttac tcacttttagc agatagctaa 240
 aagggaaaaa taaggaaaaa tatacactgg acctgcagtt aagtttttga caatgccaaag 300
 gatcaaaaac agatgaaaca acatttgctg aagatgaaaa ggtattgcat tggctttaat 360
 agatgttgcc atctctgggt gaggatgctg actgagcctg ttctgtgtct tcatcacctc 420
 tatttgnttc ttcttctacg acagaccttc aagagacaag atccatgtag taagccacac 480
 taagnccitt tgcccttctt aatcntctgg aggctcttnc ctggggacnt ttgnccaaaa 540
 tacttaggtt accaatnttt anct 564

<210> 5820

<211> 325

<212> DNA

<213> Homo sapiens

<400> 5820

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acncggggag agattttaatt tacatagcag ccacttgggg nccagtcana gctggggcag   60
ngggggaatn tataacccca gagggtnccc cccanacccc cacccccggg agaccagtcc  120
tcaccaaccc ttgatgggc tccaaggtt gngcaaaana tgctccagtc aaaaggatag  180
agacatttgg gaataaggct gnccccaagt tgggggaagt ccacggcctg gagnggnggc  240
ctacatgggg gccaggggt ctgananacc agtccatgtc ctgggcgagt cctcagcctg  300
ggggccctan aggaagcctt ngngg                                           325
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<210> 5821

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5821

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aaaacataat acatttttat ttctttaaaa acgtatgaca aaatttcttc tgccatcggc   60
catgctcaga ttatataatt ataaaatgat ttaattccct aaagtacaaa aaagaatggc  120
tgaatctcca aagagttgat aaagactgaa gatgtttata aggcatgctt atgtatacta  180
tttcaagcca tctacaggac ttgagacagg aatgtttagt gtttgcaaag ccacagtcac  240
tgagccagac tttgtggtga tccagagatc ctttcatttc acagaactgt ccttgacggc  300
ttctcccaat aaagatttac aaccttatct cttggctgtg gcagtatgag agggctttct  360
ttcagtacat atactaaagc ttcattggag tagccacgct taggaagtac caagtaaatg  420
acaacataag gccaaatgca ggcagcaggt atttttcaat aatgaattac aggggcttca  480
agaattcnac angagaaagn gattttcaca gngcttgaaa agcttganaa tgggattatt  540
gccaaannga aaagggt                                           557
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<210> 5822

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5822

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gatgcaacat tgcttttatt gggggttagg aacatatgac aaagtcacat aaaatgtcaa   60
caaagtcaca ctttgtgctt ggctgctctt taaaaaaaaa aaaaaccctg tttatttatg  120
aactcactca atgagaacta tgtgagatgt ggccaacaat tatcatgctt aaaacaggac  180
ggccagagcc atgaggagat tgaagtctga caatgctagc tagctaagtg gaaatttacc  240
attgtcaaat atcagatact tccacacatt tagatgtttg tccataagta gaccagctt   300
agctgactcc tttgagaaag aattgngtct caaaccctg ttattcagct ggccatatta  360
ttaatcatta ctaaagcca gccacatgca aaggggatgg aaaagaagaa tgagatttgc  420
tcagttttag ctttctgngg ctgaagtatt tttgagtcag ttacatggat acatgaggat  480
tatagtaggg aaatgactgg atatttttaa aaacctaagt nctatgggaa caggcntggn  540
ttaaccattn ggncnna                                     557

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<210> 5823

<211> 536

<212> DNA

<213> Homo sapiens

<400> 5823

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gttaaaaaac atgtttatth tacaatatgt acaatcagga acatatttta aaaccattat   60
cattaaaaata aatgaagatc ataaatcaca atttagtttg ttcttagtgt atatactcac  120
attaaaaatat aaagaacata taccaaaaag agccaaaagt gtgcattttg ctaaaacctg  180
gtatatacat attccattgg aaaaaagcaa tcaaaaatga cttaaaccac aactaagttc  240
ctgtgatgtg tagtaaccat tatattgttt gtatgaggta gtaactaaat tattttggcc  300
atgtattaat actctaagtc aaaagaaata tgaaaaggat cataaaataa ggccaacaaa  360
agtaaaaatt ccaagagaaa tttgaaccac ttcactctat gggaatggta cagttcttca  420

```

gtgngatcat atgaaatggt tagtgaggac tctttaataa tgctaattaa ttctttgggc 480
aactgggaat tcntggncce caattggcng gatttctatc atgggacccg ttttnn 536

<210> 5824

<211> 507

<212> DNA

<213> Homo sapiens

<400> 5824

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tgctgagatt ataggcgtga gccaccgtgc ctggcctgca aactttataa acagaattct 120
ggctaaagcc tccagtataa atgggcaaag tagatgtctt aatttatatt atgctgctat 180
aacagaatat ctgagactcg gtaatttatg aagaaaataa acgtatttct tatagttctg 240
gctgagaagt acaagaccat gaggtctgca tctgataagg gacttcattt tacatcatcc 300
caggtcagag ggcagaagag caagagacgg tgcacactcc tttataacta acccactccc 360
aaataaagac agtaatccat tcacaggggc agaccctgca tgaccggaat cacctaatag 420
gccccactt ccgacactat tgcaccangg attaaggttt ctnacacca actttggaga 480
accntttca accncattan ngggncg 507

<210> 5825

<211> 529

<212> DNA

<213> Homo sapiens

<400> 5825

gagatgaagt ttccctctgt caccaggctg gactgcagtg gtgcgatctc ggcttactgc 60
aacctctgcc tccctgggtc aagcgactct cctgcctcag cctcccgagt agctgggact 120
acagatgtgt gccaccacgc ccagctaatt tttgtagttt tagtagagac ggggtttcgc 180
catgttggct aggatggctt caatcttttg acctcgtgat ccaccgcct cggcctccca 240

aagtgtggc attacaagcg tgagccactg tgcccagcca gctctttata gtttaagagg 300
aaggataaac ctttaagagat cacaacacta tatttgtgtc agggatccac aagactgcct 360
ccatgtttgg agatttgcta gaaggactca tgggatcagc ttagggttgt aatgggctaa 420
gatttattac tgnaacatag natggatata tagnagaaag atctcaatgg caaaagacac 480
tgnccgagtc tggaaaaatt cctggaccgc gtttcttatg nggcngggc 529

<210> 5826

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5826

aaccctgtgg cacttaccac ctatcctact atatatttaa tatgcttatt tcctactgac 60
tgccgtgtctc cccttatcaa ggccaaggctc ctcaaggctca gggatttgga tctcatttgt 120
tcactgatgt atccaaagtg cctagaaagg tgccgtgatac atagcaggcc tcagtacgtc 180
tttgtaaagt atcggaatga atgtatcatc aatcaaaaca taatagtttc catttattgg 240
atgtcgtcta tgtgccaggg cactgcatg aaaattttac aggcctgac ttactattcc 300
tcacaaaaat ctcccaagaa aagagccttt attatgacta tcttatgaaa aaagacactg 360
tagtcctgca gggccaatta agatgaccaa gaccaccag gtacagagtg ggagaactga 420
gcctcagact agttctgtc aatgggaaca tgaccagatc ctgctggaag aaccnagggt 480
cgcttctggc aaataacgcc gcaacccttt tngntnatc ncttttcnn 530

<210> 5827

<211> 524

<212> DNA

<213> Homo sapiens

<400> 5827

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gcaaagaaga aaaatgtact gaaattttta caaatcagta ttaaaatatt ttggtagttt 120
gtttcaatac ttaatcttta aatctttcta atttgtgtta tccacacaga tcagatttat 180
cacagatctt tattttttcc attatattag attttgcttc tgttgaataa aataaactta 240
tgatgaaaag tcttataaaa aaacatgtct tttgttacct ttgcaaaatc aagactccga 300
atccagtcta atctgtctcc tccaagcaa aaaatcttgg ggaaaaagct gaaatgctat 360
tacctgaaaa tttatgtaag attgtacatt tactttccaa ccagtctgaa ggctgaggag 420
tttgcaagga aagcaagaaa aagttaaaat gnctaaacca aagcctgact gggttcaaaa 480
ctaggtgctt aaataccaag ggcccantgg gcnnnttaaaa acan 524

<210> 5828

<211> 512

<212> DNA

<213> Homo sapiens

<400> 5828

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ttgattttca ctttattgtg tgctttgcac atttacagca gcaacaggaa gagcttctac 120
tgaatagatt ttagtcttca aaaatgtgac tgcattctcc atctctagtt tgtccatctc 180
ccagttattg accaagatca catgaaaacc cattgcattc aaatgccgca ttttcatagc 240
aaggaatcct ctgggggtggc ttgaacccaa acaataagca gatctggaaa cacatagcac 300
agctactctt tgaatatctg tagcagaagt tgtatcacat cagaaagtgg tagcacttga 360
ttcctgttag tgtccattct gatttcaaaa tcaatatgat aattgtgtgg caagtgcaca 420
tcctttgaga agtgtccttc accttccana aggctggtca ncaccttgn cacctttgca 480
tttgatggg acnattgnaa gttccgcngg na 512

<210> 5829

<211> 531

<212> DNA

<213> Homo sapiens

<400> 5829

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 ttttaaggta acaaaggctg acattgaaat gtttaaagat aggcaaaaat tcacattaaa 180
 aaaaacccta tatttctatt tagagtaaca gtaggcagta tgattccaaa agttaaaaat 240
 tatttcacaa cctgtagctt cagcttggca aacagcttag attccaaaac tgattcatct 300
 ctattaaaat gtaagcactt aaaaaagag catgtctgtg tatatagaca tataatttaa 360
 aggaatcaga taatctttga agcagcctta gtgtttcctt taaatttgtc tggaaatgac 420
 cattgnatta gcttcacaga aaggactngc ccagcttctt tggcttaagg ntaacatggg 480
 ngatcatttg gctnaagctt aaaaggnccc accagatgtt aaccgggggg g 531

<210> 5830

<211> 529

<212> DNA

<213> Homo sapiens

<400> 5830

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 ggactaataa caccaaccct gcaaatatgt tgtaaggact tcaaataata tcagtaaaac 180
 acctagcaaa attctagtca cataaaaggc acttagtatg tggatatag caaaaagtta 240
 tggactataa aatgaaatct ggctatatga aagtagagca taaataataa gtaatgcagt 300
 cattcatgta taagtataat aaagcaattg aacttttagta gaggtgccgg gtcctttagg 360
 atttttaaat gaaaagaatt aatacagaat tccatatact tttcctcaat taatgagaac 420
 aatcttcttt ttgcatcttc tcctattttc caggnttctt ttttaattatg anctcttggg 480
 gtcaaanttg gcaagcactt ctacctatc cattaaacna acngnttg 529

<210> 5831

<211> 501

<212> DNA

<213> Homo sapiens

<400> 5831

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gacccacacc atcacgcctg gctaattctt tttttctaata acatgggggtt ttcttacatt 180
gtcctggccg atctgcaact cctgggctca agcaatcctt ccgaaagtcc tgggactaca 240
ggtgtgagcc accacgctca gccttttttt ccttattact gtactaggga catttgtggc 300
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actaactagc tcttctctgc cagggtacc gttttctccc taacctttgc agatgtatgt 420
atccatataa atgnttctat ttcaacaaac tgtagaaagn atncagnctg nacaggttcc 480
cttatnaagg tattaccngg g 501
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<210> 5832

<211> 516

<212> DNA

<213> Homo sapiens

<400> 5832

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cttgaggctc tacagaggcc tttctgagaa agctgtgtag ctccttactc tggcgaagaa 120
caagggggtg tacatcttgt caatctcaaa agcactgact gcagtctcac cagttgattt 180
gtaagtaatg tgacaagaat gatgtatcca gatgagtttg ttgaacctct ggtgaccact 240
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tactttggtc tgattgtctg tgtcttgtga caagcgatag tgaccagta gaattgcac 420
agtcctggna ttcttagttc ttaaactggg aacaatggac tgaggctctt taagggntgc 480
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aacatnatna catgggcctn gggaagnaac ttttgn

516

<210> 5833

<211> 521

<212> DNA

<213> Homo sapiens

<400> 5833

gaggctaaga ttacatacat ttccatgtat acatagaaac ttgttgtatt agtcagcttg 60
 ggctgagttg tgttgcaata atatcccca aatcttcagg gcttacaaca ataacggctt 120
 ctctctggct tgtgttcatg ccctttgaag atcagctgca gccctgctcc atgttctctt 180
 tatgatgaaa tggaccaaatt ccagaaacat ggctaataag cctgatgtca atggagcagg 240
 aagaatacct tctcacaggg agggccacca ggcaggccct ctccagttgc tagtgcattt 300
 tgtctgttgg cctcaaagct tggctcaaat tgtcaggcca atggaaagac tgaatgcttt 360
 gcctccaggc aaaattgttg cctgcagagg gtggaccctg cattgcatct caacgagaac 420
 ggaaagctca ctcagcatgc tgcagncttt catactgatt ttgacataaa acatnaggcg 480
 ggaattcnct tttggctttg cagnaaattg ggggngganc n 521

<210> 5834

<211> 499

<212> DNA

<213> Homo sapiens

<400> 5834

ctgagacaag agtttcactc ttgttgccca agctggagtg caatgggtgca atctcggtc 60
 actgcaacct ccaactcccg ggttcaagcg attctctcac gtcagcctcc cgagtagctg 120
 ggattacagg cacctgccac catgcccagc taatttttgt attttcagta gagacggggt 180
 ttcaccatgt tggccagtct ggtcttgaag ccctgacctc aggtgatccg cctgcctcag 240
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gacccaaaca cagacagttc ccccaagttc aaaaccacaa cgagtagccc acacgaaggc 360
 atactctgag ggttgtttca ctgttacagc agtacatatt tcgaagagac aacagattcc 420
 atttcagatg cttctcaaga aagaaaaagt ctttgacaga atctctactc cangnctctc 480
 tctctctttt ttttnnnnn 499

<210> 5835

<211> 531

<212> DNA

<213> Homo sapiens

<400> 5835

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 caacctccac ctcttgggtt caagcggttc tctacctca gcctcccag tagctgggat 120
 tacaggcgtg ccaccacacc cagctaattt ttgtattttt agtagagacg gggtttcacc 180
 atgttggcca ggctgggtct caattcctga ccttaggnga tccacctgcg ctggcctccc 240
 aaagngctgg gattacaggc atgagccacc gngcccaacc tatttttctt tatgtcttct 300
 gtagctcatg aaactatttg gactttctct ccctacaatt aataggattt tacttctatt 360
 tcattttcta ggcataaaaa tgctattgat ttggtgaat ctaccagatn gcaaggaatt 420
 ttagaacttt ttttttttcc ttttttcgga natagggggc ttactctgtt ggccaagctn 480
 gaacncaang ggggtaaact taagttactg gnaccttcaa tttnccagnt t 531

<210> 5836

<211> 552

<212> DNA

<213> Homo sapiens

<400> 5836

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caagtgttta tccaactctg aatctttttt caccgcttca tctgagacct tgggagcatt 180
 tgaaaagcaa actagtacaa tactcatgtt atctcgactt cccttgngta aacaagtgtc 240
 cactacccaa ttgcacacat tttccagggtc atcagatacc tcaagcctag atttaacata 300
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 tgttggggcc ttgccatcaa cacacttgta atcatagtcc cccagagcac gaggatactg 480
 ntaatggacc attaacacgg tggatcaata cgctgcttcc tggattttgg gntcgtcct 540
 tttccctggg at 552

<210> 5837

<211> 525

<212> DNA

<213> Homo sapiens

<400> 5837

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 tacaggcacc caccaccacg cccagctaatt tttttttgta ttttttagtag agacgggggt 180
 tcaactgngtt agccanaatg gtcttgatct cctgacctca tgatccacct gcctcggcct 240
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 ctggaaaagc atgaactccc canggaaatg tttctgtctc caggtatattt cctactctaa 420
 ttcaagtcct tccataaggn cctgacccca gcacaagtca ngnactaata gnaccttnc 480
 aatgaatncc ccagtttgaa ttcaangga aaatcaaata ccttt 525

<210> 5838

<211> 185

<212> DNA

<213> Homo sapiens

<400> 5838

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cagctctata acccatccag cccaagactg ttctagtggg gaaaccaaga gtagacagga 120
aggggacncg agggatggng ncgcttcagc tgaaccctaa gancnccttt ctenccttcc 180
tccgg 185

<210> 5839

<211> 480

<212> DNA

<213> Homo sapiens

<400> 5839

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gcatgtaaga caagtgcaga taaaaatgaa aaatgtgccg ggtgggtgatc tgacagttcc 120
tgggatatca gtaacactga aaatgcctag aaaacaacct tttcccagtg ttgggggaag 180
ggttctattc ctgtagagtc caaaaacaat tttccacat tttgaaaaca tctggttgta 240
ttttggcaaa ctatggtagc tatcagcttt gaatccatat gtatttaatt ttgctggagg 300
ctggataatt aaaaccaata taactgaaaa taaaacaaca aaaagctttt ttcaccctct 360
aagagcatag aaatctacac ctgggttate tggattccag ntgatatggg accagccagn 420
atactccaga antactcacc aatanttttg nntctaattt ccacnttate tcattttattg 480

<210> 5840

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5840

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 taaataaata tctagttaat aaacttggac ttaatacctg cagccagcac tggtacagca 180
 cttcaagggtt ataagattgg attcattcat gtgtagtggt gaaagaatgt actcaaacaa 240
 ttaattaaga cataaacacc ttttctaaac tgtgctatag cggaagactc atccatgtag 300
 ataactctcc cttaatacca ccactttaaa aaaaaatcat caataacaaa ataaatcgtg 360
 ggtgaaaaaa tattttccaa gatctctgga cacatgaatg atctcaaaaa tgtacaaaaa 420
 cctctgtaaa ccagtactgn atccaatata tctatcaaac ttattagata ctggaacaaa 480
 actggagcna anggatatct ttcctacatt ctcccagagg cttaatatta aaattnggga 540
 atatagngcn nnc 553

<210> 5841

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5841

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 aacccccacc tgcccacccc aaggccacgc agatgggttac tgtgggaaca atcccagcct 180
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 agaagagtaa ccaccaccgc atcccagaaa cactgcccag gaaaaactgc tccatctgct 360
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 ttgggggttc tctgatatt gggactgctg cctggccagn ttctactctg ntgcaagaat 480
 ctggacaggc aagantactt tntcccccaa gggttttttn taacggttga gcttactggt 540
 t 541

<210> 5842

<211> 542

<212> DNA

<213> Homo sapiens

<400> 5842

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ctgggattac aggcatgcgc caccacacct ggctaatttt atatttttag tagagacagg 180
gtttctccat gttcgtcagg ttggtctcga actcccaacc tcaggtgata cgtatgcctt 240
gacctcccaa agtgggaggg ttgcttgagg ctaggagttt gagatcagcc tggggaacat 300
agtgaagccc tgtgtattta aaaaaaaaaa aaaaaaatag ctgggcatgg tgggtgtgtg 360
tctgtaatcc tggctacttg ggaggctgag acaggaggat gatctcttga gcccaggaag 420
ttcacaactg cagtgaggat atgaatcgta ccattggatt ggaccatttg cctggggggac 480
anaagtggga acccttgggg cttcggaaaa aaggttacnt ntaatggaat taattgggaa 540
tt                                                                                   542
    
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<210> 5843

<211> 476

<212> DNA

<213> Homo sapiens

<400> 5843

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aaacacaggt caccatacac taattttcaa gtccgtatca gaaggaatat ctgttaaaaa 60
caaaaacaaa aaccatgatt caacagaaaa tgtgacagat tccttaggtg caactttaga 120
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<210> 5844

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5844

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 tgcataaact aaattggtat ctgaaaggct tcatagaaaa tagaaacttt caactttttt 180
 ttcctacaaa gaaaaacaaa tagtatccaa aatattaagc attaattgtt tgccaatttt 240
 ttcttaaata ttttacaac ataggaagggt ggttttcata atgttcataa caaagaattg 300
 catttctgct cttagcactg actacgtcaa tgacatcttt tgccttgtc ccaagagggt 360
 cagtttgtgt agccaccatc agagctatag gaggacgtgg gaccaagtaa agatgctggc 420
 tccttgaga cccaagggtg nccatcatgn tcatgtgggg gcaccactac acccccaaag 480
 agcttctaag tgctttcttc antaatggnc catcagagta agtaggtttg ggctataaga 540
 aagccant 548

<210> 5845

<211> 543

<212> DNA

<213> Homo sapiens

<400> 5845

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 gaaaaactgc atgaaaaatt caaatatgca cagtaaaaac accacagtat gcacaggact 180
 aaatttttaa gcaagtgcatt ggaatgctga atcaatctta cacacagctt ccaatattta 240
 actgatattt attttacttg aggatgatgt aaatttccaa aaagcatgac tatgagacga 300

taaaatgtcc atccttatat attttcgtat gccaaactagt agagtcctaa aaaattagca 360
 ttacaaaat acttggtaaa aatagctttt aaaagttgtc ccaagagata cntanaatca 420
 accccaattt ttcattggaca attcattctc cctcgggtatc tacagattca gttttcttgn 480
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 atn 543

<210> 5846

<211> 541

<212> DNA

<213> Homo sapiens

<400> 5846

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 ggattacagg catgcaccac cactcccagc aaattttgta tttttcatag agacaagggtt 180
 tcaccatggt gtctaggctg gtctcaaact cctgacctca ggtgatccac atgcctcggc 240
 ctcccaaagt gctgggatta caggcgtgag ccaccgtgcc cggcctanac tgtgcatatt 300
 ctcttgaagt gtgtgtataa taaacaaatt aacaaaaaaaa aaagaactgc tttaaaatgt 360
 atatttaaaa taaaatagtt ttaactcaat cccattttct gtgatatagt tagccatact 420
 ggtaatttc tcaaatacagg ttgactgntt tttctcaaat tgnatgagtc cctttgaaaa 480
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<210> 5847

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5847

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 tacagggtgcc cgccaccgca cccggctaatt tttttgtatt tttagtagag acagggtttc 180
 accgtgttag ccaggatggg ctcgatctcc tgacctcgtg atctgcccgc ctcggcctcc 240
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 attactnggc atgcaacacc acgcccagnt gatttttggg ttttaggta gaaaacnggg 480
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<210> 5848

<211> 535

<212> DNA

<213> Homo sapiens

<400> 5848

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 caacatgtat ttccctgctg ccgtatttgg ttttcttccc atctcgggga cccttttctc 180
 ttactgtaaa attgtttcct ccattctgag ggtttcatca tcagggtggga agtataaacc 240
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 tacacgggtgg tcacccccat gctgaacccc ttcatctaca gcctgagaaa cagggatatg 420
 aaaagtgtcc tgcggcggcc gnacagcanc gcaagctaatt ctcaaaaact tcttaacngg 480
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<210> 5849

<211> 130

<212> DNA

<213> Homo sapiens

<400> 5849

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cattggctgc 130

<210> 5850

<211> 547

<212> DNA

<213> Homo sapiens

<400> 5850

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gaaaagaagg aatgaagttg tgcagcctgc tttgtgtaat gaataaactt cttgatgca 120
atagagctca ggaagttcct acagggtcaaa tcctttctct tccctttgcc tatgtatattt 180
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acttagcat actaaatggg ggatgttatg ttgnaagcc tttttcagct aacacacccat 480
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nccgant 547

<210> 5851

<211> 543

<212> DNA

<213> Homo sapiens

<400> 5851

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 tgtatatcac tatgcctagc taatttttga tttttttag agatagggtc tccctatgtt 180
 gagtaggctg gtcttgagct cttggcctca agcaatcctc ccaccttggc ttcccaaagc 240
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 tgataataag tgcttacact ttttagcactg tcttggtgaa ttttatcatt atataatgtc 360
 cctaattatc cttggcaatt ttggttgtcc taactctact ttgatgaata taaaaatggc 420
 tttttaattt atttttttga gacaagagcc tactctggtg cccagggttg aaaagcantg 480
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 gaa 543

<210> 5852

<211> 545

<212> DNA

<213> Homo sapiens

<400> 5852

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 ccttgggggg catgggttct gttgggctct tgctcccagc atggatgacc cagcgatagc 360
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 cagtgaagc aggaccacca aaaagacaca cgttggcacc caggaagtgc accagcaagc 480
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<210> 5853

<211> 542

<212> DNA

<213> Homo sapiens

<400> 5853

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aagatagtcc tccgaggtta caggcttgga agggcagaga ggagctacga accttggaag  180
aaaaacaagg tgctcaggaa tttatcgctt aacatttcac ttccccaccc accccttagt  240
gctcccactt tggcagtgat ctctctttgg ctttaaagag aaagggggaa atgtgccttg  300
ttttgcaggt gtgcaacaac acagctctgg catctcaagc agcagggggag aactctaaga  360
cagaagaatt tcttcatgaa aatcacgggt atgttatcac atactgtctc catggcccat  420
acaaggactc cttaagggtc tttctaacat accaacatat cccccaccaa ctcagnagag  480
aggtttcctt ccaactggaat agaaaacnt tggctcatta ttacaggctt aaaaancccc  540
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<210> 5854

<211> 539

<212> DNA

<213> Homo sapiens

<400> 5854

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ttcagccata aaagagaatg agatcctgtc acttgcgaca gcatggatgg aactggaggt  180
cactatgtta agtgaaatag gccaggcata gaaagacaaa cattgccatg ttctcattta  240
tttgnnggat ctaaaaatca aaacaacgga actcatggat atagagtaga aggatgggta  300

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gtaaaggctg aaaaaagtag tagacagctg agataatggt ggggcagagg tggggatagg 360
ttaatgggtc aaaaaaagta gaaagaatga gtaaaactta ctatatgata gcccaatagg 420
ggggctatag tcaataaaaa cttaactgca tattttaaaa tcngaggggn atcagggttg 480
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<210> 5855

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5855

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gattacaagc gtgcaccacc acgaccagct aatttttgta tttttagtan agacatgttg 180
gccagcctgg nctcgaactc ctgacctcaa gtgatctgcc cgncttgccc tcccaaagng 240
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agccaattgn acttaaaatg tgacaattca nagaatcaca gggctacctg nttcacacta 420
gtttctatct gctagccaag gtgcacatta ngggtaaaaa ggataacaac ttcttagcan 480
taagtggaac aataataaan ggnatttcaa tcccattacc aaaaatgnng atttggttca 540
aaaaattc 548

<210> 5856

<211> 428

<212> DNA

<213> Homo sapiens

<400> 5856

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 gggcccgtct gggttaaagg tacttgcttt tttttttttt tttttttttt ttttcgngan 180
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 cctccgcctc ctgggttcaa gcaattntcc tgcctaance tcntgagtag ctggnattac 300
 aggcacctgc caccacgccc ggntaatttt tngtatittt agtagagatg gggtttcacc 360
 atgttgGCCA ggctggncct gaactcctga cgtcaagnga tccaccacc ttantntncc 420
 aaagngca 428

<210> 5857

<211> 321

<212> DNA

<213> Homo sapiens

<400> 5857

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 ggatnctacg gaatgaaaaa taaaangngt tgactttcaa gtcaggatga ttnatttgc 180
 cttaaaaata taattttctaa natgacatct gttttcaaaa acatcctaan ggtaaaan 240
 ggctacagga attgttgnca tcatgttgaa attttanatt ttatattanc attagcttaa 300
 aaatcataga cantancatt a 321

<210> 5858

<211> 477

<212> DNA

<213> Homo sapiens

<400> 5858

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ttacaggcgt gtgccaccac acccagctaa ttttatgttt ttagnanaaa cggggtttca 180
cagtgttggc cactctgggc ttgaactcct gacctcaagt aatccacctg cctcggcctc 240
ccagagtgcg gggattatag cgcaagtcac tgcaccaggc caaaattagn ttttatgcat 300
gcctaaagat gtttatgctg tagacttttt tttttttttt tgacaaagng ttngctctgt 360
tgcccaggct ggagtgcacn ggtgtgatct cagcttactg caacctcaag cttccccngt 420
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<210> 5859

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5859

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gaatgcattg gctgaacca ccagctgaaa aatgaggang cnaattggaa ggtgggataa 540
ggcccatagt ttngcaagga tttggaaggc ca 572

<210> 5860

<211> 535

<212> DNA

<213> Homo sapiens

<400> 5860

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tacaggngca catcaccata cctggctcat ttttggattt ttagtanana cgggggtttca 180
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anaatttggc cactntttca atttcctttc cnggttgggt tatggacccc aaatt 535

<210> 5861

<211> 478

<212> DNA

<213> Homo sapiens

<400> 5861

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cccggccaag actaaagtag gctttaaacc cgtaacaggt atgtgctcca agtccttctt 180
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cctgaaaaaa tttaaaaata aatcagctgg gcctgggtggc atgtgtctac agtcccagct 420
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<210> 5862

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5862

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acaagcatgt accaccatgc ctggctaaat ttttcacacct tatttttgaa gaggcgggggt 180
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agaagttaac agcttttaaag nctcanatga cttgcctggc aggcacttta nttgggcca 540
aggttccttc ntaaacctgn n 561

<210> 5863

<211> 568

<212> DNA

<213> Homo sapiens

<400> 5863

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568

<210> 5864

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5864

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cttaccaagg tttaatagat ttcttgaata aatggctcct catttggcta aggccttang 540
ccattttcca aaggttttaa aatagg 566

<210> 5865

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5865

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<210> 5866

<211> 414

<212> DNA

<213> Homo sapiens

<400> 5866

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 ctactggcat gaacttctgc ccaaggaggc atttgctgca gcaagagcac agaaggcact 180
 gtgtggatgc atgccagctg aaattgttat aggtcacgcg ctgcacttct gggtcgatgg 240
 cattgtggca tccttgacac accacagcgt gattcttcac atagcagggc ttgcacacgg 300
 gcttgnatt gaccatcacg tatatctccc cagctagaag gctatcacag tcaaagcagc 360
 agaagtgttt naggtgccaa ttctgntttt cngcctgggn natectcatn gcng 414

<210> 5867

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5867

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gtgccaccac gcccggttaa tttttgtatt ttttagtagag atagggtttc tccatgttgg 180
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 tcaagaatca tgagattttc ctgacagtat ttatacaaga ggcctaaatt gaaaatgtca 420
 ttaatttaaa aagaacatgt tagccaggca agtggctcat gcctgtaatc tcaacangca 480
 tggaaggccn aagccggaag gacccaaang gcaggaaatc gagaaccttc tggctnacat 540
 aagggaacc atntttctta aaaaaaaaaa aa 572

<210> 5868

<211> 562

<212> DNA

<213> Homo sapiens

<400> 5868

gagagcacia ctccaaatca tcttttatta atataaaaag ggcatattta gcaaaagaca 60
 cacagataaa agagtcacta tggctcagga cacaaggcag ggaggtgcca ggcctgtgcc 120
 cctgctgggg gagaaggagg ctgaggacaa agtgggagaa gtgctgggaa gggctgagcg 180
 gtaggggcca caaaagtcc ggtgggcaac actgtcggca ggtcatgggt ggagcttaca 240
 aaatttatat aaattctaga agaactaaaa ctaattttct atcagtctac attgtgtgta 300
 aggagggaaa agaaaacata ttgataaagt ttgcttcata ctctaaaata gccagtata 360
 tttcaacatg ccaaataagc aactgttgct tcctttttga acccttatag ccaacagtta 420
 gtgttccaag taagagtgga taaagtcccc caaatcaag ttctagtaag aagacatttc 480
 tttcaattaa acttaccccc ttntacagg aaatcancctt aacaagggaa tcctggcttt 540
 aactattann tggcccattt an 562

<210> 5869

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5869

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gagacagggt catgcactgt caccttggct ggagtacagt gatacgggtca cggctcactg   60
cagcctcctg gactcaggig atctttccac ctcagcctcc caagtagctg ggactacagg  120
tacacaccac aatgcccagt tagtttttat ttattttatt attttgtaga gatgaagtat  180
catcatgttg cccaggctgg tattgaactc ctttgctcaa gcaatcccc tgcctcagcc  240
tcccaaagta ttgagattac aggtatgagc cactacaccc agccccaatg ttatccttta  300
agtataataa gattataaca tttcagaaat caacatgtgt tagtacaata ttttataaca  360
ttcaaagatg gaaactaaag taaatttcct acacctacct ttatttaa ataataggaaa  420
atcaatgtgg tggcataatc ctttcaaagg tagaaactta tgnntttaac tagctgatcc  480
aagacttgca tttgctttct gatgggtaaa gnaactacct ttactttanc aagnccattt  540
antaattt                                     548

```

<210> 5870

<211> 423

<212> DNA

<213> Homo sapiens

<400> 5870

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gctgacctgg ctatcttaag tagttagaag ctatattata atagggccac actatggtag   60
cttaaaatta tagaataggg agattaataa tatcttacag ngtttattct aaatctgata  120
gtattttaca aggtgtgtgt gtgtgtgcgt gtgcacgcat gtgtgtgttg gagacagggg  180
cagctgatat tcatggcaac atgtagtatg tgccagtatc ttgaacaatg atatataatg  240
ctaagactca aatggtttcg gtttttaata cttttgtttt aagctcaggg gtacaaatgc  300
aggtttgtta cataggtaaa gttatgtcat gggggttttt gtacaganta tttcatcacc  360
taggcnttaa gcctagtacc tattaggnat tnntcctgat tctnnccctc ttcctaccct  420
cct                                     423

```

<210> 5871

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5871

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gaaaaaatTT ccaaatgcat caggaatctt acagtaccaa ctcattcattt ttcataacac   60
agatttatgt cttcaattgg agctatttag aaattggccc atagccacct gtaccctaaa  120
ttttctctgg gctacttggg agtatttaga gaaatgtgag atggtagttg atgaaaacag  180
agttcttcat cccaacagta acagctagat aactgactgc ttggccaaac atttgactca  240
atccagggaa tggaagatgc cattcaaagc cagattccag tttgtgttaa ggattatatt  300
tctgtcatca catttccttg acagtcccgc caactaaaaa tccccagca aaagcccagt  360
gattaaattc tcctggagca tatttttcca gcttatggaa acaatctgct gcagtgtctc  420
ctgtaatatc caaaggatag ttccatttct gaggtgata tatggaagta gattactcac  480
aacccaatcc atcttccacc aacaatttga ntttgaaatg actatggaaa ggactggggn  540
aatnaaaatc ccatccctgg aanggg                                     566
    
```

<210> 5872

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5872

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gagatgtagt ttcgctcggt gccaggctg gaggcaatg gcacaatctt ggctcaccgc   60
aacttccgcc tcctgagttc aaatgattct cctgttgaaa cgggtccagcc caggaaactt  120
gtgcaagcag aaggaggatg atagtggcct tcatgattta tctcatgtat tttcacaacc  180
agggaacctt ttaatccggg aatttgccac aggagccctc aaagctgaga tgtaattaca  240
ctaaatattc agcccaagta aaagagtttg cagggtgtga aaggaggagg ggnaggtgc  300
tgctctgtga ctaggttgaa aacctcctgc ttctactcca tagcacagtt aaatgattca  360
    
```


ttctccaagg catggaatag ttcttgcttt ataaaaatag tactgcgatt aaaaaaaaaag 420
cacttctgcc aaaggaacca tgttccaaca ccggaacaa ggtgttctgc ttaaacagaa 480
taagatcacc ancccatcc atccttncctt cctgggccccc tccaactttg agttgggcat 540
tccacatgn cccggggggg agg 563

<210> 5873

<211> 483

<212> DNA

<213> Homo sapiens

<400> 5873

caaataaata tcctttatta aagaaaaaga ggaatattgt taaaagcacc aaaactgtag 60
gttgttacat tgcatgtaca acaagagaaa ggtgattgca atacttggtg tccaagtact 120
taactctgaa gtcattgagt taaaaaacat gaaatacaaa gcaatacaat tacaatgcag 180
aaaagctgca ctaaagagca aaaggcaaca gtcaaacga ttactggaga tttcatggta 240
ttgctataaa tgcttgctta gtttttcttc tgtactttta atactttagg atgttaattg 300
aacatattta agtattgtaa atttgcaaga gttggcattt acaatacact gtgcacactg 360
tccatttaat gtaatggtac taaagccatc cttacaagcc aagcaaagca caatgtgcta 420
gtgttttgct tctacctttn ataatttgc acaaagctag tnaatggnga nngagtttnc 480
nat 483

<210> 5874

<211> 584

<212> DNA

<213> Homo sapiens

<400> 5874

aactcagagt taactagaaa aatccctttt attaaaatac attgtaaata ttgctcatta 60
atttcctgta cttgaaacat tttttctgaa cccctaagca ccacttagga tagatgaagc 120

aaacctgatg tgttttattc ttctctatta cctgagtatg aatgtgacat ttaactcctt 180
 gaacttcttg ctctctgaa gacatgaggt gctatcactg gatttctcta agtaagaata 240
 gcagaagtcg ttttaaaaaa atactgcaga tagtttttct ttccaaattt tatgaaaata 300
 ggtataggaa agaaaatctg aatgtccttg gtgtcagtat ccatctgctc catgcatcca 360
 ggcagggtt ctttccattc ccaaagaggg gggcagtcg cctaacaggg ccattgctac 420
 ccaactgtgg gagcccagct ctanactga gggaaggtct gaacaattgg nggttcgtgg 480
 tgaaaatata accctatcat aaaacaaaa tgcngatgag acccancntt cataccttta 540
 taaacccttc taccttaact tacctcggac cntttgnanc tctn 584

<210> 5875

<211> 668

<212> DNA

<213> Homo sapiens

<400> 5875

agaggtattc aaaaaattta ttgaaagcac tgtactagga gctgagaaca cgatgatgag 60
 cacaacacag ttcttccctt tggaacata gataagtga gggaatgtca tcacaaatgt 120
 aaaacttcac tatgagatga gtccgtgat aggattttct tagggaaacc tgagaaagag 180
 ttgagactaa aggtatgtgt catatttttc acaaggcaaa actgggggaa tgacatatac 240
 agaggcttgg gctagaaaaa agataccgtt agtccactta cttttgagac agttttggct 300
 gctttccctc ttcagtgcc tgttttagaa ctgagtcctt actgaggctt gtaagatggc 360
 tattatggga ggtgagagtg ttacaaaatg aggctgaaga ggtaggtaaa gaagccagac 420
 cacttcaggc tccctctggc ttatttaaag caagataaat ccatggtgga aaatcagatt 480
 tgcaagaaaa ggtagttgaa ctaggttgct taattggtgn ctagacaaga gaccagcttg 540
 gactaagtaa aantagtga ataagatcgg ttataggtgg atgacagagc cnacntagac 600
 gtggtaan agggaggggc cctaactggt agngtcagc ttgccactgn tgagcataat 660
 gccctagn 668

<210> 5876

<211> 646

<212> DNA

<213> Homo sapiens

<400> 5876

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aggaaaacat gttctttaat aaacataaga gatagtcaag tctaaataaa ataataatga   60
taataataac agattctaca ccacagttgt atacacttcc agtgaagctt tatgcattcc  120
attctgagct cctaatacca ggtaaacacg aatcataggt ggaaatatgc catgttttagc  180
actagaagta acatcacagt ttattagcaa aataaagcag aaaatgatca aaatgatcag  240
gtaaataaat attacaacat ataatgtact ggtgatgaag ctgcaataaa gtaatataag  300
tgatgtttac aatTTTTTTT tTTTTTTTTT tTTTTTTTTT actgggaagg ctagttgtaa  360
acataaacat tctcactgaa ctactggccc cccaaaacct aacctatctc acaatcaata  420
atcatctttt gctataaaat cataaaaact tgnactctgg ggctcttttg nctgggacag  480
cttttctact ttctgacatc tnttgaagtc tttcttctca aacttcaagc tcaggcttta  540
tctcctgcca aaacctttcc tganctttc aggttctgtt aaaaccnggt tctttctttt  600
tttttttttg aaacggaggn tcctntgtgn ccagctggng ggcagg                    646

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<210> 5877

<211> 644

<212> DNA

<213> Homo sapiens

<400> 5877

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agagcctaag ggcctgtatt ttaatgagaa aaaaaaatt tccaacatag ttcgggtagc   60
tttgaatggc ctagtcaaaa aatacttttg gtatataaaa agcctgtacg tacaattcac  120
acctcagtga agcgccctcc ttgccttgag gctgggcctg ggacaaaggt ggcctcacag  180
ccagcccagg caggagatc ggacagagagg ggtggccctt gaccccagct cctctgcccc  240
agctgctgct ccttggtggc ggcccctcct gacaccaggc gtctgccatc cttcaggcac  300
caaacagccc cgtctacctg gccctggtct gccctcacac cagtccaccc ccagcccca  360

```

ccccaaccac cctccgctgc acggcctcca gcacctgact ccattcaggg aactgaattt 420
gagcttgcag ggggtgagaac cacactgagc agcatgacag gctgtgagat cggaggagaa 480
gagtatatgc tgaggctntc ccagttgtca cttggcttan gggtcctggg gcccggtggnn 540
ccgcagtcca gccacagtgc tggcctgaca aatcagcctt aggtgactgg aacaggaagc 600
ggaaccccaa ggnggccaaac aaaacggttc tggaggatac ccct 644

<210> 5878

<211> 613

<212> DNA

<213> Homo sapiens

<400> 5878

ctgaacgaat tggtttaattt atttggtaaa taaaacaacc atttctaata tgacactgaa 60
atggcaaaat gatagtcaca tcacactagg gagaaaattt taataagcag acaaaacaaa 120
atgataacat tgnccatttt ttcaaagcac tgacatacaa aagtgaaaag atncaacagn 180
gcacattttc agggtacctt tgtttactga agtctaaaaa ctctccacc tttaaaagtc 240
agcattattt cttgatggaa gaaaaataca cagtaacttt ttgatgtaat actaatatta 300
tngggttttc ttgcaaatt cctttagttc aagtattact aaagaaacat aaacatatgg 360
acattacaaa ttcagctaaa aaactaggta gtgctgacta tcctgtttta tggtaatata 420
tgtattaggt atttaaattt gattattata ncacaaaata attttaacat ggaattctat 480
aaagnatgta tttgttact ctacagtgcc tgcntttcca tgggtttttt ttaagangtt 540
catcaattta cccaatttgg ncatantgt accaccggaa tngggcctnt aacccaaaat 600
ttncgtaaag gct 613

<210> 5879

<211> 596

<212> DNA

<213> Homo sapiens

<400> 5879

aacttttttaa ttcatttttca ttttaaattg ctcatgctaa tgaacacagt agtatggctt 60
 tacagatttc ctagacacaa tcctcaattt ggctcagact tgaatatacg tcatccaaga 120
 gaactttttc gttcctttctt aaggtgttta aaaaataaat ggctataaag tatggggaga 180
 aaacatttta gaataaggtc agagcacaca ttcagataca ctttggactc agatgtactc 240
 ttagagaact gtagagataa aatgctaatt atagtacatg taaacatctg ttcaaattga 300
 taaagagtga acataaaata ataggatgat attattgtaa cagtcgtctc cagacaggaa 360
 ctggtcttgc tcttgcagtc acaaagctaa attcaggcaa tgatgatctc tctctgctgg 420
 aaaaagagaa gactatttaa aaaaactttg aaaatagcaa ataaatctaa acttgaatca 480
 catcataaat ggcctccact tttctaacca ttaaaaangc tattggagaa agaatcaaaa 540
 tcaaagtga ggaaantacc caangntttg gctaaaanga tttaccaaac ctnttn 596

<210> 5880

<211> 653

<212> DNA

<213> Homo sapiens

<400> 5880

attggagcag gtttgaagag aagcatggac agtattaatg acaaggccac taaagacctc 60
 tgaccaccac taagttcagt taggttttct ttccaggtat ttcccaaggc aaccttgaac 120
 tccagaccat ccaaaacagt ttgacctct ggtgggtgcaa gcatagcatt agcaccaggc 180
 aaaagagtag aaaaaataga cccaaagtcc ttgttcacct ttigccatgc aatatttagg 240
 gcttggtttt tcttctggtc aaggtcttct atagttgtaa gaattttgga tttgtcattt 300
 tctacaattc tcttcttctt catcaagtca ttgtatcgct cttcagcttc tgtcaatata 360
 ttcatagctc tcatattgac atttcttcct agtttctcct tcatttcttg caacttctga 420
 agtctctgac cagcttcttt aagggttgta gttttgaaat cataggcact aattgggttg 480
 cccaaagagg gtctctctgc atcaaatacca gtcataatct tttcaacatt tnggatcctt 540
 gcagcaccat cttaagcct cccgttanng ttgcctnatg tggggccnaa ttccttattt 600
 taaccggaac ccntgggttg gccctgggtt ttgcccttng gaaataagtt taa 653

<210> 5881

<211> 645

<212> DNA

<213> Homo sapiens

<400> 5881

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aatagacatg gtctcaatac gttgccagg ctggtctcta actcctagct tcaatcaatc   60
ctcctgactt gtcttccta agtgctggga ttacagggtg gagccactgt gcctggcttc  120
acttttccaa ttctaaagaa tgtgttgtgt aagccttccc ctcaacaact tagtgaaagg  180
tgaaaaaag gtttggaat aaaagcatct gatgtttgaa aaagtacttt gtgaagtaaa  240
tgcactaaga gttatctgtg tattactgca aacagggtgaa catagtaaaa acaaatgaac  300
ttactgcaag tagctcaaca tagtaaaaac aatagaaatg tttggcttta cccatcagcc  360
aaataaaaa atctccttgt aaggttaaaa ggatcgaaat gtaggaagac cgtgaatatt  420
caccaaaacc cttcatcttt tcaatttctt catctgtttc tgggctgctc attttggatg  480
ctttaacttg gttactacta ccagtatctg ctttaanata gtttggcttg ggtatctaac  540
aaccgagac tcttgaattg gcactgcat ctaagtctaa nggtttatgc ttaatgattt  600
gnggggacta actggactac ttcangaatn cagngggtct accat                    645

```

<210> 5882

<211> 540

<212> DNA

<213> Homo sapiens

<400> 5882

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aagtattgaa tagagagaat cactcactac ccaataaatc ccagggtggg taagatattt   60
cccattttca gatgagggtg ctaagggtca gaaggatgga ggcccagccc aatgctactg  120
acacagctag gattcagtat tgggtagaga atctctatcc agtacttaag ggttgtcaaa  180
aaaaacagca tatgaaaaag aatgcctgct ggagaaggaa gacaacacaa cagaaagcag  240

```

agatgggaga gaggttcaatt cttgaactcc tggcctgaag tgatcctccc acctcagcct 300
gagagttgaa ttctgatgac attgtttgaa cccctagatc cagctttacc tgaagctaaa 360
tgcgctacta aacttctcag tttaaaaagc ctataaatcc tgctgnttga gtcaatttct 420
tatttgcaac tatgntctat tcaattcaaa gccttagggc tnancccagt taaactgctt 480
ctacanttct ggtggatctt tngactnatg aaacctaate tttcgnttta ccaacngtcca 540

<210> 5883

<211> 479

<212> DNA

<213> Homo sapiens

<400> 5883

gctgtgaaaa tactctgttt attaaagacc aggcgaggagg aggttaagggt gtgggttctg 60
tatgggaaac tgagtcccag cccagggaa ggagaaggag gacggaccag ctggcagccc 120
gcgagaggtc acaggtcagt ggccggaccc cagtcatagc cgtcttcac ggaggactcc 180
gcatcatgga ctgcgtaaa ctttttcttc agggcttccc gttcataggt tcgcatgctg 240
tcctgtcgcc actgtccctg ggggtggcgg ctgtccacct gggccccctg atgagccgag 300
attctccac gatccctcgg gctctgggac tcatctgcct gcacgggctc cgaggaccgg 360
ccagggtg acccgggggc tcatcatcan atccgtgtag ggccccctt gccgctgtgt 420
acccttgca tccgtgtacc cncgccttg ccgccgntt gnaanncctt gtaaccccg 479

<210> 5884

<211> 429

<212> DNA

<213> Homo sapiens

<400> 5884

actaaaacag aaagactttc aggaaaatgt catttaatga tttcagctat acattacata 60
tacaactctg tagcctagca acaatcattg ctacaccatc attaacttta aatattttgc 120

ttggtgagct attctcaaatt gtagcacatt ttaagatttt gccatcatta tgactgtgga 180
atcattgttt ggttttcata ggaaacagat ctgtcacagt atgaagcttt gtttatttta 240
agaaactggt acacaattac atttccactt acaagagaac gccacagata taactaaagg 300
caggcttcga tggctccnca aaggttgcgt gcgggaccaa cccacacct cctngnttcc 360
ccgtcgaacc gccntgncca ggttnacatg gtttcatttc cagagatgct ttgnttttcg 420
naagttagg 429

<210> 5885

<211> 632

<212> DNA

<213> Homo sapiens

<400> 5885

caaccaccaa agctgtaact tttatttgcc aatagatatt ttaataaaca ggcttactcc 60
atctgtaaga ccctgataat gcctcttagg aaatcataga aaaataaaat acaataatta 120
gtaatttgta ccttgtacaa aaatcttatt atgttgctca gcaggtagtt tgctaaacag 180
catattcttt cagcaaatag atgacatatg ttatgcaatt caccacaaac aacccctcat 240
attgagagct gagcattcta taacactatt aacttgtaag catgccagca catgaaaatt 300
tacatggaaa gttattaata ttatagtaga tttttgtaag ataaaaatag taccaccttc 360
aaataagtct ggactacttc actgctatag taaagtagat aataggtagg attgcagttc 420
aattgttaac acctttttac cttgtttata gctctaccat attgngatta taaccagaaa 480
agagaatgta ngctgtgtca ggaacctgag tggaaggcat atattgaagc tttaaatggt 540
gacagaatac taangagaaa accttaaaca gngctatact tcctatctca tagataaatc 600
ttttnccctt tgnaagacca atgggncaga gt 632

<210> 5886

<211> 494

<212> DNA

<213> Homo sapiens

<400> 5886

gagatggagt tttactctta tagttcaagt ctggagtgtg atggcagtga tctcaactca 60
 ctgcaatctc cgcctcccgg gttcaagcga ttctcctgcc tcagcctccc aagttgaatt 120
 acaggagccc accgacacgc cggctaattt ttignatttt taatagagac tgggtgacag 180
 agcaagatcc tgtctcaaga aaatgataat caattcaatt caattcaatg cagtccccag 240
 atcaccggct ctgtgctcag caaacttcat cacaacggga ctgatgtgga tcagagtgat 300
 gaccattca cggatgagac acttactcc cgcctgcct cccagatgct aaggagggat 360
 aatccaagtc tcagccttcg acagtccttc ctccagacg gcnnnggntg gtttttctct 420
 aagtgctttg ccattcaaga gcnaccaacc ccaccantg gcntggacta agagggaat 480
 tanttttttg gaac 494

<210> 5887

<211> 448

<212> DNA

<213> Homo sapiens

<400> 5887

atcttgatat tgnttattgn ttacggttat gacacattat atatatacac acacacacat 60
 atgtatatag ttacgtacac acacaccaat ggcactgatt ttggtacaca tcagaattac 120
 ttaagagagt ttgttaaaaa tggagattct ggagccccac tctgtgagtc tggacgatag 180
 gtcctacatt tttaaatgcc cctgcctgcc cccaaggtgt ttttatacag atggtagact 240
 cactctgaaa aacactagaa cataattct taaaatatca aacattgaat tctgggtatg 300
 atcattcttt tttggtcagg gacaagaaaa aaactgtcaa agacaactga gattttgagt 360
 ccaggtagcc cggaggaggg aaaagtaata cttacaaaaa taaggntctg aatgaaaaag 420
 ggagaagnnn ggataccnan nggttttt 448

<210> 5888

<211> 540

<212> DNA

<213> Homo sapiens

<400> 5888

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aggataatta aaactacttt gaatttttta tttatcaatc tggtttctaa tataatttta 60
gttaaatagaa agacattcac aaagaatatt aggcatatcgt acataatttc cttctttcat 120
tctagtttac atgctgttgc ttttagagag tgaaattttg tgttatttca caggggatgg 180
aatcctgttt gactttacag aaagaatatt tagcccagct tttcacagca ctaacctctg 240
cagtcaccac gctcactgaa aaaattttaa aaacctgaca aaataaaaact tagtaaaatc 300
tagaaacttg aattcaattt aataattgct gccctttttt tgggaaaatt gctcaacagg 360
gtggtgaaaa gaaaaaatgg ggggtttcaa attcagtgtt gnttggaggc atgagacata 420
aacggccatt aaaacgttta ctgcgtaaga acnaggtata atggggngag gaaaaggaga 480
aagaaaaaag gtngattgaa aagaacngat ttcttccttg aanggaagna aagctttttg 540

```

<210> 5889

<211> 570

<212> DNA

<213> Homo sapiens

<400> 5889

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cataaaggaa aacaaaaaac aaaaaaaca aaacaaaaca aaaaaaactt aaggtatgtt 60
tcctgcaagc aaaatggagg aaaaggtatt attgttgta ctatgattat taagccacag 120
acacataaaa tccacaaaat ggattggtgg ctttggaat gcaataccgt atcaaagggtg 180
cagactgttt caaatgttct ctacatattg ggctgaaaca agaaccacaa caaacttcaa 240
cccatcagc gacgcaatgc tcctgtgacc ttggtgaaaa catcgtcgtg accagctaga 300
tccaggaatc cttctctaga gacacgtgga aacgtcccat caggtaggtc ctcaagtcca 360
aggtgggggtt gaagggtctt ggcttgtccc agggcaaagc acgtgcatta ttggaccaat 420
ttctgaatag aattttatta atatgtcnaa tcaattccag gcacttgaaa tggctttggc 480
tggaataacc caacatngca agaatatgga ttcacagagc attcagccca agctgggttc 540

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ancangcaag ggntatnggt ccttnangct

570

<210> 5890

<211> 485

<212> DNA

<213> Homo sapiens

<400> 5890

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ctgcgctttt ccggacctgt gcgaacagag acaccgcctg gccagggggg tcctgcggcc 420
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<210> 5891

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5891

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tacaggcatg caccacgacg cccagctagt tttgtattt ttagtagaaa caggattttg 180
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aaaatgggct ttaaggggaa tacataggga gccatttata tagctctggt tgacaataag 480
gtggggagaa atncctagaa gctaattnta ggggaaaaga tgnaaatggg gggnatggcc 540
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<210> 5892

<211> 579

<212> DNA

<213> Homo sapiens

<400> 5892

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agtagctggg attacaggcg cacaccacca cgcccagcta atttctgtat ttttagtaga 180
gacagggttt caccatgttg gccaggctgg tctcgaactc ctgatctccg gagatctgcc 240
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atacctgctc tgcagggcct catgggggtg atgtacacac agcgcccctc cgagctctgc 480
agcagcattc caggatggca aactntgcca aatagttttc cgttgccggg gggccccaaa 540
aacacnttgg nncnctgggg atacagggtg aacctggnn 579

<210> 5893

<211> 595

<212> DNA

<213> Homo sapiens

<400> 5893

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accataatgc cgaagaagtg acatgaaggg gataaaagtc taatgctttc atcttcacag 180
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tccattaggt tgagccaccc tcactcctct ctctggctct ctcccatctg aggtatagca 360
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aagtgagtgg gcaaagtctt ggaagaccag ataatctggc tctggtgagg cacctacgtg 480
cacantgtcc cattatggaa gttgacaaca tactcagcat tagtcctntg cccagaaatn 540
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<210> 5894

<211> 542

<212> DNA

<213> Homo sapiens

<400> 5894

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ctgtgtcttg cctcttctgc tttctgctga ctgctggcat tccttggctt gtggccatgc 180
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tccccacctg tcaaggaggagg gatgaggtgg aaggtgattg gatcatgggg gcggtgtccc 360
tcatgctggt ttcatgatag tgagtgagtt ctcaaaagct ctgatggttt tataaggcaa 420
gtttttcctc tctctctctc tctctctctc tctctctctc tctctcgcct gctgcatgt 480
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tg 542

<210> 5895

<211> 481

<212> DNA

<213> Homo sapiens

<400> 5895

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atataatgtc caagttatit tgntataata gtctgatctg tatttccagn cttccatcta  180
gtatittata ttaagatcat gccccacac acatctactg tatgtttcct taagttctag  240
attcaggaaa actaaattac aaaaaaatca aaatagtgtc ctgactctgg agggaagggc  300
agagttgact ggcaacaagg gaactttgag gtaagagtaa tgttgtatac cttgatcaga  360
gagtgggaatt gtctgtgtat acacttaaaa tgnatggggt tgcccggcgt ggtggctcac  420
gcctgnaanc ccagcacttt gggaggccca tgtggcanat caccagggca nganatcang  480
a                                                                    481
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<210> 5896

<211> 468

<212> DNA

<213> Homo sapiens

<400> 5896

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atgaaaagtt attcctgtaa taacttgcct ttttacttg tattttcata tgcttttagtc  180
agaaaaggct agtgaagcat ccaatgcaca ggggatgcat gtaaaggact gtgaaccact  240
attcagaata gtctcctaaa cacacaaaca ttatccatga acacacagcg gtctaaaatc  300
caggttgatt tctaatactg tcaattgctg actgggcatt ctaaggcatt ttaaatttat  360
acggtttagg ttccacaata taattaacct attcaggtta actatattat attctcaata  420
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<210> 5897

<211> 567

<212> DNA

<213> Homo sapiens

<400> 5897

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 ttctgggctg gagtagtggt gcccctcaag caggcaatgg gcagggtgag gtgggcataa 180
 ccctcaggtg acacctggca gccccccagc ggatcccccc gtgcagcatc aaagccagct 240
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 gcagctaggt agtcagcatc acccatgcgg ggcccgttcc atgccacgtt gacggtgaag 360
 cctgtgcccc cagccccggc gatctggctg ctggaccctc atccccatgg ggaaagaagg 420
 tgccatgatc atagcggtgc anggacacat atagcacact tggggtcatc ctcaacatgt 480
 gctgagttcc attaccgggg tggacattcc aatccacaat caggatccga aggcattgcca 540
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<210> 5898

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5898

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 agtgtgatga agagtaaaat gtccctgaat gaagaccacc atgtggcccc tctgctgtcc 180
 ttataacctg gcagtctgcg atctccaatc ataagccaac agcatgatgc ctggggctgc 240
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aaccaacctt ctttcaagct gcttttcatg agaaagttca gtccagagca tcagccacag 360
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 acacaggtga agcagaacac caaattgctt ttggcaggaa acaccactgg agaagtcaag 480
 aaatctaaat tatgttgagg ccctgaagac aaggacactg gagncttaca gacggaggac 540
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<210> 5899

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5899

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 aacatatata aatctatatc atatatttat acacacaaac acattctacc agcactgtga 180
 agacacagac taggcctttac taggcctggg gcctctccca tgccacttaa aaatgagcac 240
 aggtttgctc tatgcaagaa tttcaacaga gttggctctgg ccatcagtct gcaatttccc 300
 cgagataaga taggggtgaca aaatgggaca gcaactttga agtgaggtca gtccaatttg 360
 gatatcatag aagaaaagaa ataggatgtg ctaggttaag cctgagatgg tatctgggaa 420
 atcaccatt catgatgtga actcaaagac acangtgcta cagtggcaga cccaagccca 480
 acctgctnga ccacangggc aagtgtggac tgggaatant ggtactgggn ccccccnaa 540
 atgtccggan gggacct 557

<210> 5900

<211> 545

<212> DNA

<213> Homo sapiens

<400> 5900

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 attcccttat aaagaaaaaa aaagttttga attaaagcta gtttatcttc agtgtaaaaa 180
 cttggaggta taaacaaact caagatatta tatacagtaa attaatttac atttccaaac 240
 ttgcacagta cagcatttta aacaaagtaa atgggtctcat ttcagctctc actgttaagc 300
 ataatccaca tcccaatctc agataaaaat ttcacaatat ataaatccat tgagaattct 360
 gtacacaaat acgagttata gaaatctgat ttcaaataa aatacaaaaa ttgtcatgac 420
 cttacacgtt acaacagctt atttttctat tggaatttta aaaaatcata gaaaaatatg 480
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 nanaa 545

<210> 5901

<211> 167

<212> DNA

<213> Homo sapiens

<400> 5901

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 ggcacccagc cccaccgccg cccgcttcat cgggtcctgc tcctaggagg actgggctgg 120
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<210> 5902

<211> 530

<212> DNA

<213> Homo sapiens

<400> 5902

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tgggactaca ggcgccccgcc actgcgccccg gctaattttt ttgtatttcc agtagagacg 180
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 agaggaggga tggggagaga gacttcctc tttcacttcc tatttttttc tagctcccag 420
 cntttccac tggcctcatc tggttcattt ggttcaaggc ctaatgatgc attttgctgg 480
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<210> 5903

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5903

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 agtctactct tgttactctt caccatgtag atgaagtagg caagggtctc tttttcattc 180
 acaggtatgt tcctgaagtg tcgactcaca gtttctgcta actgggcctt attgaagcct 240
 ggtctggtct gcaacttgta gtgtcgttta taacgtcgta ggggtgttcac ctgcagctgg 300
 aacagatcaa cctcaggaat gtcagtgtcg tgctcgggag aatctccgcc atcgtcactt 360
 gtcttctctt tccttttatt tcggacactc tggatgaaat ttttgtgaaa atcacagata 420
 tataggtgcc ttacgtctct gccgatgtcc agcttgagtt cttctgcgag atgctctttg 480
 gaccctcttg ctgaaggaag cgttgccccg nggccggacg canngcttgg ccgnnctcga 540
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<210> 5904

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5904

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 gattacaggc gctgccacca tgctcgcta atttttttat ttttagtaga gacggggttt 180
 caccatgttg gccaggctgg tctcgaactc ctgacctcgt gatccaccg tctcagcctc 240
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 caaaaactag ctacaatgtt tcgagagcaa caaaagagtt gnctataagc tanaatgggt 480
 taaaagacng agaccctgga accaattaaa ctggaatcag caatttctac ggggttggag 540
 gacttnaana gaattnnaat tctt 564

<210> 5905

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5905

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 acaggtatag tctgtatacc tgagattaca ggcgcccacc atcatgccag gctaattttt 180
 gtatttttag tagagacaca gtttcacat gttggccagg ctggtctcga actcccaact 240
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 atgggtatct caagggaact agnctatctt atctaattta tcaaataatgt gagttagagc 480
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<210> 5906

<211> 587

<212> DNA

<213> Homo sapiens

<400> 5906

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cttatttttg gagatgctct catttcctgt tcatctttca gtggtgcttt tccaatgcta  180
aaatgaactt tatttgaacc ttcattccaca ctcttaaatt cactgctgtc atcgcagggtg  240
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gtgaggggca ttttcttctt gcggagggta tctggatcaa gtgtgtaaga gtctgattta  480
gaacgttccc gangaggatc aagctttgnc ttaacaggag cagtactttt ttgangnaaa  540
atttatcat gtggtgaaga agaacctgga naactacncc cnatggc                    587
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<210> 5907

<211> 565

<212> DNA

<213> Homo sapiens

<400> 5907

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gccctcagac gagtagtttc aacatttcag tgaaaacaaa ggttgcagaa agctgaaaac  180
ccagatcttg aaggttgctg tcatatatgt gtttgtgttt cttatattat ttccttttga  240
cttcagtttt gcatcccaaa tatgtatggg gtggcatttt aacagtcaat gagtcaaaca  300
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gtcaaaggag gacaggaggg gagccagctg gtaggagggg gcagcaaccg tgtgtggacc 360
aagcgccatt ttgntttat agacgtgtct tgaagggatg gtcccagaat atacaaaata 420
tacaatctgn cctaataacc accccgcttg cttgcatang ccatttgatg gcctnaaggc 480
agctttggag ttgaaggcag tgnactact tggaatgccg gtagattgag acccttctgg 540
atgtgtnaat gtggcatgac cagta 565

<210> 5908

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5908

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ctcagcctcc caagtagctg gaattacaag tgcccaccac cagcctggc taattttttg 180
tattttcagt agacacaggg ttctgctatg ttggccaggc tggcttgaa ctctggcct 240
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tggtgagtaa acaagctgta ccatggngcc ataaagaaat ggctttctac ccaangggac 480
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aataccgntg g 551

<210> 5909

<211> 567

<212> DNA

<213> Homo sapiens

<400> 5909

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 gagattacag gcacccacca ccacaccagg ctaatttttg tatttttagta gagacggagt 180
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 gggaagttat atgacagcaa tattctataa aggaataaaa acggaagaaa aggaaacatc 420
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 gacaaacata ttccaagctg gggaagtcag actcttgttg aaagggccca gagtctatca 540
 gtcctggnga ataagcaaaa aactaan 567

<210> 5910

<211> 568

<212> DNA

<213> Homo sapiens

<400> 5910

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 agtaactgat cagtatccat cttgttttat ggcatggcta ctgtaccagg agagatacaa 180
 gtgagaagtt tgtgggctgt gtggaagtga agatgaccag gccctcaaa aagaaggga 240
 gtggagatgc tccactgga aactatgaaa aaggagaaca gaggtgtac tggggcacca 300
 ggaagggaga atggaggctg agggcagtg cagacaagaa agctcctgca actccagctt 360
 agtcgttgca tgtgagatac actgttatgg cgtaggtgga aatcaattca tttagcgaac 420
 aaaagcaata gacataccag taatccttgc ccaaataaat tccttttcgt agtcaggaat 480
 cataccatct ggatctacgc taggtcacta cctttaaaaa taattattaa tcncttaatt 540
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<210> 5911

<211> 380

<212> DNA

<213> Homo sapiens

<400> 5911

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aacctctttc aaatactaac aaatttactt acaaacacct atatttatta tttcataaat  180
aggcncaaca ggttccataa aaaaagatta aatacagaca cagtatgaag aaacaataag  240
acagagccat atgtaaaagt tgtaatttag ctgtttccaa tctgtttctg catctaataa  300
aataccaggt aagcatttgg cagttttata cataaaagga cttaaaggac atttactaac  360
cnttncncaa aangngntnc                                     380
    
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<210> 5912

<211> 570

<212> DNA

<213> Homo sapiens

<400> 5912

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aagaaaacat tgtctctgaa ataattccta attatacaat tttgcaaata agcactataa  180
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tattacaaca ctccatttaa aatgaaaatc tatgttacga ctttatgctc ttcaaatacc  360
acaccagact gaagcatcaa ccagtatata aagtgttctg ntccttaaaa aatcgctttg  420
gttatggggg agtgatagcc ttgcttatta attttcaaaa atcctgccta ggtatccttt  480
agccngaate atcttccaat tacatgggcn tcaaaattac cttttaatca gcaattcatt  540
gggnggctaa atggaaataa ttgcccgan                                     570
    
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<210> 5913

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5913

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tgacagaaat ggatgcaact ggcaaattac cttactaatg gcacacatta catacaccta 180
tctccattag atggcttaga ttccaatttg ggctttttct ttggagtttc attctgaatt 240
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<210> 5914

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5914

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caagcgtatg acaccaagcc cagctaattt ttaaattttt ttagagatg gggctctcagt 180
atgttgtcca ggctgggtct gaacttctgg cccaagtga tcctcctgcc tcggcctccc 240
aaagggctgt gattacaggc atgagccact gcactcgacc tgaaccaggt gttacatggt 300

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aaactgtgac tggcgctgtc tgggtgggct gccctttggc tctcctgatt cticagtaaa 360
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gtcctggggc tgacaaagga agtgggtggca gggactagca agaacgcat gaaaaagggc 480
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<210> 5915

<211> 582

<212> DNA

<213> Homo sapiens

<400> 5915

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aaaagtgttg aaatcatttc ttggngccaa gtaatnaag ttggnggttt gnggtagaaa 480
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aaatggtnnn aaaaaagaan ttcataaagg gggattccaa na 582

<210> 5916

<211> 569

<212> DNA

<213> Homo sapiens

<400> 5916

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 ggagacgggg tttcaccatt ttggtcgggc tggctctgaa ctctgaggc ctccatgagt 360
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 cctgggtcgg cccaaagaca atctgcgtca cacactgtaa accaaanggt ccttggggcc 480
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<210> 5917

<211> 569

<212> DNA

<213> Homo sapiens

<400> 5917

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 ccaaaaagcaa acaaacccca aagctggcaa gaagacaaga aataaccnag atcagaagtg 480
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<210> 5918

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5918

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 gcttgataat tgtgtgtttc tgagagggtt tctttggaag cctgccacag agagtggctg 180
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 ggcaggcagc cctgagccta agtgctactc agaggcaggc cccggagcat ggctggggga 420
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<210> 5919

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5919

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 aaggaaaagg ataactgcag gaacatcatc aggaactcag acgcctggca aaggtaaacc 420

acactgggtt cttatgacag aaacccttcn tgattccttn accacccccca aatcttcct 480
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 nctttgancc nggattt 557

<210> 5920

<211> 562

<212> DNA

<213> Homo sapiens

<400> 5920

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 accttctagg acctgttcac ttgcaatgc taattcttga agctgcttan atgctgctgt 180
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 cttggtactt tncaaattta ctttctgtcg aaanttcaag gncctctatc aaaggctttc 480
 ataggtatat cctctctatt cgagaaactt ttcatgcatt tccttangg gcctcntttg 540
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<210> 5921

<211> 581

<212> DNA

<213> Homo sapiens

<400> 5921

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caaattagtt atctccttta aacaggaaaa acgaccatta gtctactggt tctcaaccct 180
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 gaaaacaggg gggaagcang gccccgatca gtttcatttt ctttatectc ttcagttggc 480
 catagtaaga gcntaancca catcaaataat tggaagcttt tgcaaacccg cttncceaaa 540
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<210> 5922

<211> 538

<212> DNA

<213> Homo sapiens

<400> 5922

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 gggatatctt tctgtcagct tctgtaacaa gcgggcctgg taagcagggg gatcctntcc 180
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 ctcatacaag gnggctgggt ccagcgagt ggcatlgat aggcacaca gatactcttt 300
 gtagtgtgcc tggcacaggc cggcatagcc agctggagtt tccitgccac aagcttcgtc 360
 cctgagccca ttgggaacct cttctgctc tatcactcgg cagcccgtt cagggactgc 420
 ccgggccccca actggaggct ctgnattaaa catgacgtta tggcctgtaa caacttttga 480
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<210> 5923

<211> 548

<212> DNA

<213> Homo sapiens

<400> 5923

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 gggattacag gtgcctgcca ccatgcctgg ctaatttttg tatttttagt agagacgggg 180
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 tttgcaaact ctaggagggc tcgcctcttt aagcccagct cagctgtggg ctagaatgat 360
 cgtttctaata gntcattgca cttatggggc cagaagtaag gaacgggtgga tgggtgtcaa 420
 gggcatgccc tgctcantgg acccggggag aanactcaag ancctgaang gagatcggac 480
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 gcacctng 548

<210> 5924

<211> 555

<212> DNA

<213> Homo sapiens

<400> 5924

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 tgttgtgaaa catgacagat tgcccaagng ttatttttcc tctattggaa aattctaaga 180
 cgtttcctca tgtgtagttt ttcagtcaca aaaatggcag taggaatatt taaatattaa 240
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 gacttatgat tcccagatat gcagggttat cattngnact gctttggatc aagacaagtt 360
 tgtaaaaagc agcgacatag ttcgacataa tagtcaggag ctagattact tccctgtaat 420
 tgctatgcac acacagtaca aggctagcga gattatagac aatcatgtca ttcgaatcta 480
 ctatctttgg ataacttgaa tcattttcaa ggttaaaatg cgcttttggc agtaaagcgc 540
 ctttataang gcatg 555

<210> 5925

<211> 567

<212> DNA

<213> Homo sapiens

<400> 5925

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cactgcaatc tccgcctccc gggttcatgc cattctcctg cctcagcctc cagagtagct 120
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gtttcaccgt cgtagccagg atggtctcaa tctcctgacc tcgtgatccg cccgcctcgg 240
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aaagctcagg gatcctgggc catggncttc cactctggat aaccaattca ttctcctnat 480
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ggagaagagt aaaattttan tcttcag 567
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<210> 5926

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5926

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gttggttttt ttgtattttt ttgtattttt tttttttttt acaagtaagc gtctatgcag 120
gcatcacaaa ctttggCGGA tacagtanat atgtatttct ttgatgctga aaggtcagtc 180
cctaagacaa aatcaaattgt ctcaaagaat taaaagcaaa atgcatgtgt cttcctggca 240
aaggtttcca ttgcaatgt aatctgcatt tctacaaata ctcaatgtcc aaggccacta 300
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gagggtgaaa aaccaggga gcgtnttcca gcaggagtca gggcaaacc agagccaaaa 360
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aacgccaggc ccttactggc cgccaccctn tgtgggctgg gtgcttgggg ncnagggatg 480
gcctgccttt tctgagcccc gggaaagggtt gttgccgggc tgnnacctt ttttgacca 540
gttnnaacag n 551

<210> 5927

<211> 558

<212> DNA

<213> Homo sapiens

<400> 5927

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agcaataaaa agaatgaat cactgacaca tgcaacaaca tgaataaatc tcaaaaacat 180
tatgctaagt gaaagaagca ttacattttg tataatttca ctcatatgaa gtttagaaca 240
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tttgaaagg gtttgggtta cacagggtga tatgtctgca agaactcagt aaatttatct 420
taagatttga cattttattg caggtaaate ttaaatcnaa aaatttaaaa actaaataaa 480
tnctaantc tagttaataa tctgcagttg aagtactnng gggaagtttt tcacaactgc 540
aatttttttt gaatccan 558

<210> 5928

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5928

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 tgttgaatgg ctgttctcct accccagagg gtgccgatg atgttgacag cacggctgct 180
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 tgcttcaggc ccanaaccct gggccctgct cgctgaggaa actggtggnt ggaancccca 480
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<210> 5929

<211> 563

<212> DNA

<213> Homo sapiens

<400> 5929

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 ctgctgatac aaactaggct ggcctacgag gtgaccgaac gcaccagca gctgatttac 180
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 aggtagaaga gagagggaag gtggacagaa aaggaagccc ggtaaggaca cgacactggt 480
 ttccacacgc gaatcacgca ctttantatt ggggatagct caatgactgg tangaacctg 540
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<210> 5930

<211> 561

<212> DNA

<213> Homo sapiens

<400> 5930

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 gttacgacat taattgcaaa tagcaagtat ggtgctaaag tctacaccaa tggaattaga 180
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 tattggacac cactgggtgcc tttttgagct taaaatcagt tggtagtatg ttagcaacta 480
 cnggatctaa ttattcacia tcatgccagc atcagaaaat ctggaagttt gatgtcnaag 540
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<210> 5931

<211> 558

<212> DNA

<213> Homo sapiens

<400> 5931

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 tttgtcttc tctatgacat acaatgtttc tcttcaact acggaaatcg ttcctcatt 180
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 atttgcttg actctgntaa ttgggatcca aactgggctg gggcttccat tganggatct 540
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<210> 5932

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5932

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 ggaaatggat ccg 553

<210> 5933

<211> 559

<212> DNA

<213> Homo sapiens

<400> 5933

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<210> 5934

<211> 560

<212> DNA

<213> Homo sapiens

<400> 5934

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aggaatgctg caaaaatact ctagttcaac aaagagttat gatcacaaaa taatttttat 180
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caatttataa aaaccacttg cataactttt atgcaggttt taaaaatcca agtttctcct 480
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<210> 5935

<211> 562

<212> DNA

<213> Homo sapiens

<400> 5935

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caaagtgctg ggattacagg catgagccac catgcccggc cccaaaacta tttctaagag   300
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attcttagac tatccatatt gcaaaacaag atacagtaaa gatgtgacca agcaaccatt   480
tgctaataaa atttgatgg atcaagcatt ttaacagaaa ncnggtatga tcctttagac   540
aatgggaaga atgaccccca ag                                     562

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<210> 5936

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5936

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aaatataaaa aataaaactt ttagcttgct tattaaacta ggaagaattt tcctgaaaca   180
cagcagttaa attggtctac aatgcattaa taaatggaga acacggatct cgcctatgaa   240
atattttaaa cattgtggac gctacaaaa agctcattgg tatataaaaa ttttcaagtc   300
acagtcctct aagcagacta aatacaagtt agtttttaac ctgaattcag aagtgcaaaa   360
tctgtaaaaa taaaaatatt tccattgntc tcagcaatct atggattaac cttacaaatc   420
cttaaagtct tttcagtaac atgaaccatg atctcttgac aagtccttgc ttaagggcaa   480
gtaacttttg aagctggact tctcaatctg nanagagaan ccagctgnat tcacagnatt   540

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557

<210> 5937

<211> 550

<212> DNA

<213> Homo sapiens

<400> 5937

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tattaatacc aactgaagtc tcatattata aaaaagtccc tgtgcatcaa gacaaaaaac 180
aaaatgttat caaaccaaaa tatctcagaa ggacaagaaa gggactatgg acactatgtc 240
cacaggcaac acactatggg ccattctctg aggatgacag acactcaaaa ggtcaaatat 300
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attgaaatct aatttagtat ttagaacctg acattccccc agatgaaaat ttatatttgg 480
natttttggg tccatggcca ctacccttcc gaaagtatcc cggatggggc cttatctaata 540
cattgggttt 550

<210> 5938

<211> 558

<212> DNA

<213> Homo sapiens

<400> 5938

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cattctgtcc taaaagcatg tacaaaaagc tctcctgcaa ctattgatca tcacctcggt 180
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cgccaccatc agcttctgaa gttgatacat actcattttc agtgcttgga agttccaaat 360
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atttcttaag agttttcgat ttttcttcat ttgaacctaa ngaattcggg tctgaatact 480
tttttctttc tggggttctg ggcacttnci ncatcactaa ttttatntt tttccttaaa 540
ccttaatttt ggnttttc 558

<210> 5939

<211> 545

<212> DNA

<213> Homo sapiens

<400> 5939

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cgaattgggc gtgaggggtg cgcccaccac atcaatgatg gtgtccttgg ggctcaggacc 180
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agctccagca gcattctgtc canggccttg actttttctg tcccacaaaa cttggcaagt 480
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aacac 545

<210> 5940

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5940

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 tgtgaaaatg tcagtcacatc ttgggaaggc ctcaaataaa caaggagagag tcttgagcct 180
 ggtatccttt catcttgga gaattcatag ctgggaattg gctaaagcct tgcagtgggt 240
 tgaatgatgg tttccaatga gatctgtcca tgccttagtc ttcagaactt gtgaatatga 300
 ccttatttgg aaaaatggat ttacaggtg taattaagtt aggaatcttg agatgatatc 360
 atcctggatt acccaggtgg gctctaaatc acatgaaaaa tgttctcata aaaatttcag 420
 agagagtga gctgcagac accttcattt caggcttcta gcctncagaa ctatgagata 480
 ataaattctg gtggnntaag tcccaagatt tgggcaatgc atacagcact ctagggacta 540
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<210> 5941

<211> 396

<212> DNA

<213> Homo sapiens

<400> 5941

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 ctgagcccag tcaagccaac ccgcagcttc actcacgact tcaagatttg atgctaattc 180
 ttttgatttt ctacagttat taaataagtg tctgagtgga ctgtctttgt tcctttgtgt 240
 tttgagggct ggctgggtag gagggggggt ggtttgtctg tggcagtga tttttgccag 300
 gagaggaaca ttaaagcca aaggtagggt gcagtatttc agtctctgcc cnagccgaca 360
 ggcagagaga ccttnacaan taatangacc nannaa 396

<210> 5942

<211> 554

<212> DNA

<213> Homo sapiens

<400> 5942

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 ccttttcaaa cataactctc tctacaagcc agctattatg gcaagggaaa aaagaaagca 120
 tctagataaa tatctatcaa aattaacttt aagagaaata ctctctttcc ttaaaagccc 180
 ttatTTTTTg agacactaga aaataagtta ctataaaaag tggTggtctg ggggctaaaa 240
 acaaaacaaa aaaaatcctc ttttctacat tttttagttt tctggcatat ttttgaagat 300
 ttacagtcc caaatgagtc aaatgcctat ttgtTTTTTg aataaacaat ggacttTgtca 360
 tgtgatatat gtttctaaac ttaagtatta cagaaaacat cactatccat ttgtaaaaaa 420
 ctcatcttg aaaatacctt tcccttgggt tggTataaaa naccttccat anagcttttn 480
 gggaatcttg gccttgaaaa accaccggct ttcattaatt tccccctna aaatcaangg 540
 ncccnaactt aaac 554

<210> 5943

<211> 567

<212> DNA

<213> Homo sapiens

<400> 5943

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 aaaatggaaa tagtgtgtgt tgtctttcaa tctgtctctc acctgtggta gggcttttgc 120
 agggctggag gtagaaggcg cgcccttgga gaagggtgtc agcacagaga ctgctgcctt 180
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 ccggttttgg cctacagttt gaatctttgc caggctggtt cctgnnggtgg caagtttaaa 480
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taangcctgg tacatactct nggattg

567

<210> 5944

<211> 568

<212> DNA

<213> Homo sapiens

<400> 5944

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 ttttgaccaa agagctgaaa attttgtgtt ccagttcatc ttactcatgt tattctgatg 180
 cgaaacactc taaatgcaaa ttgttttgaa agtaaataagg ccaagtggcc taccctgccc 240
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 tttggcttac acggagacca tcagctacaa cgcatggcag tcagcttcag agtcctcgct 360
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 cttcagttta tcattgatgt ccaccattt cacttttcca gcatcatctt cagcttctag 480
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<210> 5945

<211> 554

<212> DNA

<213> Homo sapiens

<400> 5945

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 caacaaacaa ccaagaagcc aatcatttcc ctgattgtga acaaccaatt gagtagtaaa 120
 tcctgaacag ttgaccgat atacaagaca ttccgtcatc ctctagtgt ccaagtggca 180
 gaggctgatg tttttccctg gttcctattc ttccagtggg gaagtaatgt gctcaactgt 240

tcctatactt cttcagacca aattatgtat attcctacgt aagtgcaaag catggatgaa 300
aagaatcata cagggtagaa atccagcaca taagattttc taggttctga cccttatatt 360
taatgggttc tgaaaaataa ggacaataaa ttgtgcttaa atattgagaa atgtagtggt 420
tcaaaggcca aagtgccttc ctacatgaac tattctctgn ggaagaaact gaggcacag 480
ttgggtnaga ccttacctaa aggatntaat aaattacact gggnaaanta gcactgggga 540
agaaggaatc ctgn 554

<210> 5946

<211> 568

<212> DNA

<213> Homo sapiens

<400> 5946

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ccagcaggca ggcgggcagc acacagcagt ctccctgggg aatatttgag ccaggctagt 120
ggtgcctggc cccacagtgc ggggtgatat gccagggcca gggccaggac ttggcagccc 180
ctgggaagag gaggccttgg ggccagagct cttgccaggc ctagatcgct aagaagggtgc 240
tgcgtctgtc ccccgccctg ctccgcccc ccacaccag ctggaggcca gaaggcaaag 300
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cttggtccct tgttagagga aacgcttga ncaggatggg ggttggggac ttggggtctg 480
gtctcaataa gggctggaaa tggcttccgt ttnaaacaaa acttttgatt ttggggaagt 540
gttcccaatt tctnggtnc tccggana 568

<210> 5947

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5947

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tgccatcctg gaatttcaag gtctgactgg ctctgactg ccctcagcta ggatccaggg 180
ccccctttcc ctteccaact ccccaaggca cctgcctcc cacctgcca caggggtggg 240
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catggtatgg aaggcttgct gagaggccct caggcaccac agctgaggag cagggcttgc 360
tcccctggcc accanaggct ttctcctgcc tgacatccat gaacggnaga acaggccagg 420
gcangnggtt tccccaaang cagctgcttc antcaggtgg acacacttgt taanggctgg 480
aaactcaagg gttttgaagg ggngggaact aaaatcccat ccaattntta ttcttgcca 540
aaggcaaac agaaaaa 557

<210> 5948

<211> 554

<212> DNA

<213> Homo sapiens

<400> 5948

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taatcaaate agcataattg ggatatttgt caccitaaat attgatcttt tcttgatgct 120
atgagcatta ggttaatggg tacaatgta cagttagata aaaagaataa gacctgggtct 180
tcaatacatc atggtggcta tagttaacat taaccattgt acatttcaaa atgctagaag 240
agaataattc caacacgttt ttgtttgtct tacttttttc tgaattctaa tagactgata 300
catcagtccc tgctgtagcg aaaataatga ctctctcaaa atgcacttca agaattgtgac 360
ctcaatggat gtaacagaaa gaacctgctc ttggtgtttg ggaaagaaaa ggtgttaggc 420
ccgccacaat tccttctcct nccangtgga ttcanagtcc tggaggacag aatccttggg 480
aacttgagtg aactcctttn accagnccag ccttgactca aattcagctc atatagctca 540
caagctccct ggcc 554

<210> 5949

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5949

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acaggtgccc gccaccactc ctggctaatt ttttgtatit ttagtagaga cgggggtttca  180
ccatgttagt gaggatggtc tcgatctcct gacctcgtga tccgccctcc tcggcctccc  240
aaagtgtcgg gattacaggc gtgagccaca gcgcccggcc taaaatattt tcaaagtaat  300
ggcaaaaact gcaattacat ttacaccaac ctaataacac aaatttattg ncttatgggt  360
ctggagggtca aaagtcagaa atggggtttca ctgggccaat caagggaggg agggaggcat  420
ggcccagtcg gggagtcggc anggctgngc tcccttangg agaatccgtt ccttgntccg  480
gggttccgtc catctttaga acttacagta gaacatntnc aatctactgg nggtttcagt  540
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551

<210> 5950

<211> 560

<212> DNA

<213> Homo sapiens

<400> 5950

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caagcttcgc ctcctgggtt cacaccattc tcctgcctca gcctcccaag gagctgggac  120
tacaggggcc cgccaccacg cccagctaatt ttttgtatit tttttttct ttttagtaga  180
gacgggggtt caccatgtta gccaggatgg tctcgatctt ctgacctgt gatccgtccg  240
cctcagcctt ccaaagttct gggattacag acgtgagcca ccgcgcccgg ccaaagatc  300
cataaacttt gagtcaccag atagagctaa catttaccac agaggcatgt aaagaaaacg  360

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attctagcag agtaactata atacaaaaga acaatattcc aattatgttc ctatgttcta 420
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aagttttctt ttggttttct tattaaccgt accttgaaag ccccaaataa angttccttg 540
gttaaaagcc ctggganann 560

<210> 5951

<211> 556

<212> DNA

<213> Homo sapiens

<400> 5951

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actcctcata cacggcaaaa agttttaaaa acattctgct agttttgttt tatacaatct 180
cccaaattca tgcacacaat cattccaaac caatgttagg ttatcccaaa aaaagggaaa 240
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tcggatatga ttaagtgaag ccaacatcct caacatgaaa gaagctggaa ctgnaatggg 480
gttctagggt cttnccatg agttcgtttc gagttatact tcattagcaa gttttcgggt 540
aaaaatcctt gatttt 556

<210> 5952

<211> 551

<212> DNA

<213> Homo sapiens

<400> 5952

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 tcctttcaac agctggtgca agtgtcttcc aattagtaac tccaaagtga agataagggg 480
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<211> 551

<212> DNA

<213> Homo sapiens

<400> 5953

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 taactggaac tacaggcatg caccagcaag cctgctaatt ttaacatttt tgtggagaca 180
 aatttccaag aacgaatgca aacacacaga gttgacaaaa tgataagtag aaattttaac 240
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 gagttcaatg ctgcatttat gggaaaattt cttattnccc aaatagctga aatgaatcct 480
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<210> 5954

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5954

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gggatttact tgtagtgga agacagactt tttatcaata cagaataaat attaacagca   180
ttcgtgagcc aatgttgaga cccaacaaaa tgtaggaatc aagcatgatg taagaaataa   240
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atatcaatta gtcccatcct cacagctcac cttcaaacca cagggttgt ttctggctat   360
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acgcaaccac tgcagaaaaa ctccactggg aaatagaaca cagtttaata agtagattgg   480
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<210> 5955

<211> 564

<212> DNA

<213> Homo sapiens

<400> 5955

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taaaacagta tacctgacac agtatgttga ggaaatatgc atctgtttca tagtttttgt   120
acttatgtta atgccttact aagctacaca tatgtaaata gtatgttttc ttgctaatat   180
attaaatcca atagaatcat taagttctca ttctcctttg tgacttgtaa ctttatcaga   240
taatttaatg atgaaagcat atgcccacac ctgcagatca tatgtactgt catctattac   300
aaccagaatt ctctcacat ttcatttttc ttaaaaggaa attgagaata cctgcaacat   360
cgtaaagag aatgttgtag tgtgaataaa aactagaact cagtggctta tgaagtatgt   420
attattttgg caagtgattt ttctcttctt aagaataaga tgaacatgtc caaatgttcc   480

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tgngccaact tccagatccn gaagtatnca ggcttcattt cctcaatgnc ccaattagac 540
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<210> 5956

<211> 565

<212> DNA

<213> Homo sapiens

<400> 5956

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ttagaggcac ccaccaccac gcccggttag tttttttatt ttagtagag acgggatttc 180
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caatgaaaaa tgttccactc tctggatata ccacagtta ttttccatt cacctactga 360
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tgtgtgggtt cgtttttttt gtgtgtgtgt taagttttca actcatttgg gtaaatacca 480
aggagtatca ttactggatc atatggtaag aagtccttca gntttaagag aaacttctat 540
ctggcttcca agganctgga atgaa 565

<210> 5957

<211> 562

<212> DNA

<213> Homo sapiens

<400> 5957

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tcattttgac tgtcttataa ctgggataag ggtgcagcaa caattctgcc anatggttaa 180

atgccccaga ggatttctgc tcttctcttc ctaatttggg agctataaag cagtttttac 240
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 aggatgacat gcaagtaaaa aaaaaaaaaa aaaagtagcc ctgataccaa gttaatattc 360
 ccttgaaacc ttacttggct gctaaatttc tttgttgaaa accaacttat aacaaattgg 420
 ttatccggtt agcttttttc cctttttctt ccattttctt ctgctccct ctttctctta 480
 ctttttcctt ttggcatgnt taattagaga acattttcta taaggcntta ttaagaataa 540
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<210> 5958

<211> 567

<212> DNA

<213> Homo sapiens

<400> 5958

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 aaaaaagaga tcatttgccc catcaattgg cagcaaacgc tgtgggaaga aaaaaaagga 180
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 aatagaaata cctctttgct gggggagggg agtgcttctg aatagaaatt acccactctg 360
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 aaaaagggta tctggccang aaacctt 567

<210> 5959

<211> 546

<212> DNA

<213> Homo sapiens

<400> 5959

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 tacaggcaca cactaccatg ctcgaccaat tttttgngtg tttttggtag anacagggtt 180
 tcacatggtt ggccaggctg gttttgaact cctgacctca ggngatccgt ccacctcagc 240
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 aaactcattt agttgggttt ctntaagaag caacaaaata aatattgcaa aggaactgna 360
 tattaatatt acaagtatat gcaaatttgg agtatccagg tagtagggaa agaggataaa 420
 tactgaaaat aaacaatcca aatgtttttg ggataaagat cttggacagn ctatgaactc 480
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<210> 5960

<211> 553

<212> DNA

<213> Homo sapiens

<400> 5960

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 gtctgtctgt ctttctcgta acacctttgc atactcttca gttcttcctt tagattttca 180
 attgtgcat taagagattt ttctcagagc tcaacctgtt ccaatggaac atgtttgttt 240
 tgcaaaagat tttgcaactgc aagtatctca gaagtctgtt tggcattttc ttctactagc 300
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 gncttatctc tcaaactctt ctgaagggtt aaaatctcct tctttactgg cattctcttg 480
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<210> 5961

<211> 556

<212> DNA

<213> Homo sapiens

<400> 5961

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ctcagaactt gggacatgat tttcttctc tctcacttct tataagcaga tgcccccttt  180
cagggcattt tcaggttgca caggcagaac taagtgagaa atacggctcc agaggccatt  240
cagtttgtct ggggtccatat gattgtagga gttgggtgtg ttagaattgg tgaacttgac  300
tttaagaaaa tctcttactt tttcttcaac ttcctttagg cctagacttg ttccaagtgt  360
ctcttctctc aataagacag tcaggactaa ggctacatct ttgaaggctg cgttttcatg  420
gtcacaatat ttgtagaaga tcaaagtnaa cctgcgggaa atgctcaaaa cggngaccac  480
actgcattct gggccattct taaaccatt ggtcantctt gggctacccc tagtttggca   540
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<210> 5962

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5962

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tgtgcgcat cacacctggc aaatttctgt atttttagca gagacggggt ttcaccatgt  180
tggccaggct ggtctcaaac tcctgacctc aggtgacctg ctgcctcag cctcctaaag  240
tgctgggatc acaagcgtaa gccactgcgc ccggcctagg aggcttctaa taaagattct  300

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atcactccta agaaggccta gagacatgat caggcctaga cctgctgatg attaccttgg 360
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 tctttgcttg gctcagttga gtctctcgag tctgctctac catggggctt ctttaagtaaa 480
 atatatcctt ttttggtaga aacagtgtct tgctntgggc caagntgaat gcntggngca 540
 aacnttngnt aattgga 557

<210> 5963

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5963

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 tacaggggac tacaggtgtg tgccaccatg cccagctaata ttttttggt ttttttagtgg 180
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 cagtggcaca atctcagctc actgcaacct ctgcctcctg ggttcaaagc aattctcctg 480
 cctcagctnc caagtagctg ggactacagg caccaccac acacttaagt aatttttaac 540
 nttagtanaa acgggggttca catgttggnc nccctg 576

<210> 5964

<211> 557

<212> DNA

<213> Homo sapiens

<400> 5964

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 tacaggcgtg cgtcaccacg cgtggctaaa tttgtatfff tagtagacac agggtttcac 180
 catgttggtc aggctgggtc caaactcctg acctcaagt atccaccctc cttgacctat 240
 ctcaagtctg ggattacagg cgtgagccac acctggctgc cttttaactg ttctgataag 300
 caaactctac agttaaaacc aatfffftgg tgcaactaaa ataccaactt cctcatcaaa 360
 atctacaaag taccatgtga aatgaaatgg catgaagaca acagtaagaa aactgtagct 420
 ataactcaga aaaagaatag ctgngatgca tacatagttg gaaaatgcat aagacaaatc 480
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 gccanactgg antgcaa 557

<210> 5965

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5965

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 ctaggaactt catataaaat ttaattccag tttcaactag ttgtggagca tttgatccaa 180
 aataaaatga aagtcctctc tgaagttgta gaggagactc aagaatcaga acaacctgaa 240
 gttctttaag ctgtcagttg aaggactagg taaaaaaca atatcattta gtgtgatcat 300
 taatgcacat gagtcattat tccatgtggt tgctgtcgac tggtcagggg cacttcaagc 360
 cctaactctgt actttgtcct gtctctctac accctgttct actttttcag cttgttgcct 420
 gtaatatgtg aatggaaata aaataatcaa gcttggttaga attgngttca taacgacaca 480
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<210> 5966

<211> 574

<212> DNA

<213> Homo sapiens

<400> 5966

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actttatgcc tccctgacat cttgtgcata tgagtttggg ttctgaatgg attattggag  180
catttttaag gttgggtgtc tcaatctttt aagagtgcag agcatgagga gtggctggca  240
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agcgtgacac gaagaatcag tccagaaagc tgccacagac cctctccatg agatttttaa  360
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ttagtacagt aattaccaca cattgaaaat attgttcagc aggaaaagta aaactttcaa  480
aaaatttctt aaagatccta ttttaataat aattttgatt aanggaccct tatgcaaact  540
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<210> 5967

<211> 573

<212> DNA

<213> Homo sapiens

<400> 5967

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caggcatgca ccatgatacc tggctaactt ttataaaatt tttttgtaga gatgggggtct  180
tgctatattg cccagactgg tcctgaattc ctgggctcaa gcaatcctcc caccttagcc  240
tcccagaatg ctgaaattac aggtgtgatc cactgtgccc tgcctcactg aaacttttaa  300
atcataaaat tatctgcatt ctgtatgttc cttgagcaca tagatacact ttttcatcaa  360
tggggacaca ttctactat aaggctgaga aaagagaagg gagttcaata cttactgaat  420

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aaatgtaggc ataaacctca ctacctgttt caaaggcctc attatttcct tctctaagac 480
 aaatccngag cactttgcag ncattataga cttctnttaa acaacctgga gcctaaanat 540
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<210> 5968

<211> 574

<212> DNA

<213> Homo sapiens

<400> 5968

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 ctggtagttg cttaatggga ccaacagcag caatagctgg actcctatta taagtgtatt 180
 tggtagatc ttctcgaatt gtctcagcat tcacagcatc aattcttgct tcaagctcag 240
 ggatgggaat ctttctatta tagcataaca ttgcctacc aatatcttca caaattggag 300
 ttgaaccatc aagctgcaac aacatgtttg ttttcagaag atttctggct cgtgcaacct 360
 cactttctgt gacacttgta cagagtcgca tccattcttt ttgaacaaca tgtagcatgt 420
 ctgcaacagt ggatgattca caaaccatat acagtcceca taatcctgna tctgngtagg 480
 aagtgttgaa agactgaaaa gctntggcaa agatggcatg acaagtganc tgggccactt 540
 gctanaaaat cattcttccc caaaagagcg atcc 574

<210> 5969

<211> 419

<212> DNA

<213> Homo sapiens

<400> 5969

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aaagctcatt ttcattcaca ttgataatag gncanacaca tttttgaaga aaaaaatgga 180
cagagcgtaa aggataacag agtacacatt ttcattttct atgatgaaaa ggaattttta 240
aaattggctg ttgnacataa aaactttttt tttaaaccac acaacctaga attaaatgga 300
gtaaaatgtg agaagcccc cttttttcct ctttcagcag acaaaaccgc tgncaatagc 360
ttgatatgng nnatcacaga ctcttttcta ggggtgcacac acgcatatat gctncnnat 419

<210> 5970

<211> 457

<212> DNA

<213> Homo sapiens

<400> 5970

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tcctgcttca gcctaccta cagttgggat ttcaagcatg tggcactgca ctccagcccca 120
ggaggccttc tgaaggaagt gatgacaaag gtagattttg agaataaaga aacaaggtag 180
cgggctggac acggtggctc acgcctgnaa tctcagcact ctgggaggcc gaggcgggtg 240
gatcacctga ggtcaggaga ccggcctgac caacaagggtg aaaccccgnc tntactaaaa 300
atacaaaaat tagccgggtg tggcagcatg cgcctgtaat cccagctact cgggaggcta 360
agacnggaga attgnttgaa cccgggaggc agaggttgca gtgagctgag atttggcacca 420
ctgnactgca nncctgggcan caagcgagac tgtctna 457

<210> 5971

<211> 424

<212> DNA

<213> Homo sapiens

<400> 5971

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tccctccctt ttccccagca tattgcaaaa agctctccag tgctaaggca ttggcagggt 180
 gtgtaaagcag cagccagcat atgtggaaga ataatacaaa gctttttttt ttcttctaata 240
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 cctnccctg tgtcctctgt caccttggtg atgaggccac cagtgatgtg aagactggna 360
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<210> 5972

<211> 574

<212> DNA

<213> Homo sapiens

<400> 5972

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 accactgtct ctgtagcttc ggttactact gctttcactg tgattgtttt tgtacagatt 180
 cattccatta ggaggaaata tgggtgtgtat taaaaactcc tccttcgaga tgggttcatt 240
 gcttattggt aacatctgaa aagaagtttc cctgatttcc aggatagagt tgtccttctt 300
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 tcttgctttg gctctcaatg anggtgggtg gaaggttgac anttcaaagg ggtgcaagtt 540
 taagcttnaa tccaaccggg agttcattna atag 574

<210> 5973

<211> 570

<212> DNA

<213> Homo sapiens

<400> 5973

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 cctcccgctt cagcctccca aagtgctggg attttaggcg tgagccactg cgcctgcctt 120
 actcctactg tacttaaggc atcataacat ccagaccatc atgggccagg ctgctctgcc 180
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 aggttaaaat atgatataat caggagtccc ctgttaaaaa cccaaatata tctgaaaggc 420
 atactgnttt aagcttctag aaccagtata aattgattta ttcagcaact tttggactta 480
 gacctggatt ctaatcctga ctttggcaat ttctaactgn aaaactgcaa taaaatatta 540
 accttctgac atgaaggaat tagtaanaag 570

<210> 5974

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5974

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 ggaataggag gctgttcacc accaccaaga ggtccagtgc attttgctgt ccttactgat 180
 aggccatatt tcaccttctt acaacagaaa tatcatcaga gactttatca aaaactaggc 240
 tgaaatccat atatacgaca ttcatagcat ttatttgatc caagtccagt atttacatga 300
 ctgctttgtt ctttttgagg agtatatgtt tataaatata tattaatat ggaattctac 360
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 aagccaggac tattgaaaac tatgccattt tgattctctg ctcathtagg aaacagacca 480
 angacggaat attttaaaag tcaataatta aangggcaat cacttatatt gcccttttta 540
 aatcccagaa ctggactttt caagtattaa cattag 576

<210> 5975

<211> 573

<212> DNA

<213> Homo sapiens

<400> 5975

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gtagggatgg ccactgcgcc tggctaactt ttgtattttc agtagggaag ggtgagtcag  180
catgttggcc aggcgtgtct gaactcctga cctcaagtga tccactcccc ttggtctccc  240
aaagttaagg gattacaggc ctgagccact gtgcctggcc taaaattttt catttttcat  300
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taactctcct ttccactttt aattttgagg aaaattattt acacagctga cccttgaaca  480
cangnttgaa atgtgtnggg tccacttaca tataatggat ttttttcaat aaaaattttt  540
agagattcaa ccatttgga aaacctggcg ata                                     573

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<210> 5976

<211> 573

<212> DNA

<213> Homo sapiens

<400> 5976

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tacaggcacc caccaccagc cctggctgat tttttgtatt tttagtagag atggggtttc  180
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caaagtgtg ggattacagg cgcaagccac cgcgccggc ccattaatgg gcattttttt  300
taaggccact gtcctaaatc taaggaatat gaatttttat agatagtcac gatttttttc  360

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tgcacattca atgaacagta ttaggtacct actgggttgt atactgggca ggattcaaag 420
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 atcttaaggc caacctccaa taaggnggcc ana 573

<210> 5977

<211> 552

<212> DNA

<213> Homo sapiens

<400> 5977

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 caaataaaaac aaatatttct ttcatagnn gggcatccaa ctttagataa tctggaaaaa 180
 aatcactnta gcccctgaat accatgatgt gcatgatgtg caaaatgaaa gtatcaccca 240
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 aagtccattc ttcttctgat tctggtctcg gtcagcattt ttagaagtcc acttttgagg 480
 agcaaagcct ttaagtctag attaaccanc cggtatggaa ggctaattcn ttccacgatg 540
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<210> 5978

<211> 562

<212> DNA

<213> Homo sapiens

<400> 5978

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 ctttgctttt ataaagtcca cgataacaat acttaaatgc actttttttt tcctgngata 180
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 ttgnctaagt tctgnctttt tcactttccc gatctttttc tttttttatc cttctctcgc 480
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<210> 5979

<211> 472

<212> DNA

<213> Homo sapiens

<400> 5979

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 catgttatca acaggcatgt ccccagggtg aggctcccca cccgggaccc aacttggtca 180
 gttacaaaac ggggacnaag gcgggaggaa gcccagtgtc accagggtggg accgggtgcc 240
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 ttggctgttt ccacgtcgga cttcgcgacc aggaaccgca tcttcttccc gccatgacgg 360
 atcagggtcca cagctntcag gtagccaagg cccaggaggc tgctgccatt caccttcagg 420
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<210> 5980

<211> 456

<212> DNA

<213> Homo sapiens

<400> 5980

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tcatccattg atctttgcct aaatcagtta ctttgtttagc agttgcaaaa tagcaacttt 180
ataattctgt cattcctgcc actttgctag aattcctcag aatctaggaa tatgcatcaa 240
attttttagca tgcatatttg attttataaa gatttgtaat attaatacaga actcctactc 300
atgtcctcaa tgataactaag acattagaat taatgggtcat ccaggagaat ggcgtgaacc 360
cgggagatgg agcttgcagt gagcccgaga taagtgcctc tggacttcaa cctgggcat 420
agagcgagac tncatcttca aaaaaaaaaa nnnnnn 456

<210> 5981

<211> 517

<212> DNA

<213> Homo sapiens

<400> 5981

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agtctggagt ggggaatggg gtagtttga accacatgac tgagtttgag ggggtgcccct 180
caccacagct gaggtagggtg ggtcagagtc tggccagggtg agaggaggca cccagtgct 240
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aggtaggagg agagggacaa ctggagtctg gagccctagg tgaggggttg ttaacccttg 360
tgtgtgtgca tacatgcaca ctcacacaca cataccacac aaagacaagc ttgtgcacac 420
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<210> 5982

<211> 569

<212> DNA

<213> Homo sapiens

<400> 5982

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tccccagccc acgatgctat gcagaacaca cgtgtgctcc tgcaaagtgg cttcattggag 480
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<210> 5983

<211> 566

<212> DNA

<213> Homo sapiens

<400> 5983

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gttngccttt gggtttctac aagtgtgaat atgatatatg taaggggtgg attttttttt 480

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<210> 5984

<211> 586

<212> DNA

<213> Homo sapiens

<400> 5984

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<210> 5985

<211> 480

<212> DNA

<213> Homo sapiens

<400> 5985

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tccaagagag atgcacttgc ctaagaccat cagctgtaga gctgggctaa tcccagtgc 180

tgactcttcc atgaattgtg tgtaattat ttatttattg agagagggtc ttgctctgtc 240
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 ctggctaatt tttnattcc ttttagagac caggttttgc catgttgccc aagctggctt 420
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<210> 5986

<211> 471

<212> DNA

<213> Homo sapiens

<400> 5986

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 cagacaagtg ccaccacgcc tggctaattt ttgtactttt gtananacgg ggtctcacca 180
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 ggctctggct cttanacctg cctccatttt ttttctttg aagaaattaa atggggtttt 420
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<210> 5987

<211> 576

<212> DNA

<213> Homo sapiens

<400> 5987

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ttgtaagaat tcaagccaaa aaaagtccat ccatgggaaa aacggttcct ctatcatcca 180
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<210> 5988

<211> 582

<212> DNA

<213> Homo sapiens

<400> 5988

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cagaattgga tctcttacag tttcattcca ataatgattt gtacttccca actgacacag 240
atcatgaggt gaaagaaagg acaaaatata tagctgtaca tcaatctgaa acagaagaaa 300
gcagcaggta ggaaaaagga atgaagaaaa tagtttttgg gtgataaacc acataatcaa 360
caaataaata acaaaaggtc aactgactag tatttttaat aactaaatct accattaata 420
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cgaagtgggt naacaattna attcttggaa ccacctggaa cattcctgga aaaaccaacc 540
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<210> 5989

<211> 572

<212> DNA

<213> Homo sapiens

<400> 5989

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catatgggta gnggtcaciaa ttcaatttt ccataaatng gggttttttt tacatttggg 540
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<210> 5990

<211> 547

<212> DNA

<213> Homo sapiens

<400> 5990

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ggccaaatag tagtttctta aaggacagat aacatttttg aatctgaaac cacatcaatc 180
cactttttta ctgntaaaat ccattgctat gtctggaatt ttcaaaggat cttttgcctt 240
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547

<210> 5991

<211> 604

<212> DNA

<213> Homo sapiens

<400> 5991

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acttacatgg aaaggaaca caaaatccat ttttatatac ataaaaaaa aacacccaaa 180
gagacttgac ccccaaatg tcttgtttca cttgaaaata acatgaatga gacgaaagat 240
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gaattgncac ttctcttncg tcagntattc caaatggtag taaacttcaa ggagcttggg 540
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nccc 604
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<210> 5992

<211> 592

<212> DNA

<213> Homo sapiens

<400> 5992

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ttcgcttctt cagcttttga gtctcctgga aaaccgaat gcacagagcc ttcttgggtca 180
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cgaatcggcg gtgggctctt cggtaataca gaggggggaa ggtgtactca attcccagcc 240
cccagcatat cttctcaaag acatcatant tgggtgttacg gaggtttttg agcatctttt 300
tcctctggtc aatgctcatt agcagatagc cgtttgtggg ctttgnctt tcgatgtttc 360
tccaagtgtt cttcataact gcggatcttg acagacaagg caataactga aaccacaaac 420
cacagaggat gatagttggg cacagangaa ggaaggccca gcctggttta cgttttaaga 480
actcaaggaa taacatcacc aatgctctgt caacttntta taaatnccaa tcactctgaa 540
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<210> 5993

<211> 594

<212> DNA

<213> Homo sapiens

<400> 5993

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cttttctacc aacttggatt aaataaactt gtcaaaatat ggttttgtca ttttctgaga 180
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tctgttcctc ctatttccat caaggggggc tctctactat ctttangaag gang 594

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<211> 589

<212> DNA

<213> Homo sapiens

<400> 5994

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agaacactca ctgacagtgt ggccatgctc attctttaag ccttaattta ggteccattt 180
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aatacctggt ataccggacc caatatctgc tgattgatct aacctaaatg aatacaaacc 420
atttcagaaa aagatatata atagaccaca tatccaggtc atgaaaatta agctttcang 480
tcacctactt agtgactatt gctcttgacc ctagactctt ggaaggccat tnaactggcc 540
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<210> 5995

<211> 342

<212> DNA

<213> Homo sapiens

<400> 5995

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tgcaccacca cacctggctt atttttgtat ttttagtana aacagggtnt cactatgtta 180
gccaggctgg tcttaaactc ctgacctcaa atgatatgcc tgccttgac tcccaaagtg 240
ctgggattac nggcntnaac cactatgacc agcccggaca ttaactcaca atggcngggt 300
tattgncctt cctctatgen aacaattccc accagcntca ca 342

<210> 5996

<211> 577

<212> DNA

<213> Homo sapiens

<400> 5996

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 cagcaaagc ttctggtgcc atataagctg ttgttccac aattctgcta gtcattgactg 180
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 nantgncaac ccattggttg caagcttntt actggnc 577

<210> 5997

<211> 599

<212> DNA

<213> Homo sapiens

<400> 5997

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<210> 5998

<211> 543

<212> DNA

<213> Homo sapiens

<400> 5998

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<210> 5999

<211> 279

<212> DNA

<213> Homo sapiens

<400> 5999

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 aatatttcctt ctaactctcc cctctacctc aattcccttc agaggtaaca cagcaaaaaa 180
 aaaactgggg aaaagcaaac aactttccag acctctacta ttctaaaaca caaagagcat 240

tacagcttgc tatgcatitt tttttttggg ggnnnnnnn

279

<210> 6000

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6000

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<210> 6001

<211> 536

<212> DNA

<213> Homo sapiens

<400> 6001

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<210> 6002

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6002

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 ncacctggta an 552

<210> 6003

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6003

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atttcagata ttttgttata gccacacaga caaattaaga caagcaattt cttgtgccaa 240
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aggatgggga gata 554

<210> 6004

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6004

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tttttgtttg tttgccacaa ccaagtaaac cctaattgtat ttTgattttt ctttttaaaa 180
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atcttttagtt aataaacaag caaacatcca taccacgtaa ttcacacttg catatgcatg 360
tacactttca tgatgtgaag cctttaagac caaaatctct cttaaacatt cagcttgaat 420
aataaagaca tgttgcctag agatagaaaa ttcattatTT taaaaaatat aaccttaaaa 480
cttgaatttt tatgantTta ttttaagcTt aaagnggnct actaatattg gccccatttt 540
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<210> 6005

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6005

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tgtgcttgag aagattcaga ttgtttcaaa gtcattcact gaactaaaag tcattttccc  180
catttttaca gtcatgacat ttaccagagt cattcaactc caatttacat aagaaaacat  240
tatagacaaa atcccactga aatcatcaaa caatatTTTA tgctgttaca aatatgttat  300
gcaaaatata acactggcac cagatttgta tcatcgtgct ttacaaagat atattgcaca  360
tgctagagca taaaatatgt agacaaaact accaaataaa agatatttgc attgaatttt  420
tagatcacat aagaaacgca tagaattaca ttttatacaa cactcagatt ggcctatctt  480
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tntc                                     544
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<210> 6006

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6006

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ccctgccatt cttgattgaa atgttcagtg agacttaatt tcatttggat attattttcc  180
agagatttgc gaagtctcat gttcctgtta ttgcagctca tttctagggg gtggtaaaga  240
tggggtagtc tctcttccca gacaaaatgc tgggagagag tgggatgagt ctgggggtgg  300
ggtggatctg aaatgccagt atagtcacga gatcttcagg atgtgtattc cttcattacc  360
aggtagcaga gctgtagtgt ttatttgtcc taactgtggc atcagaacac tccccatctg  420
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aagagtcaca gtccgattct tcaaactgca tggggttctc atagccacgt tccttcacac 480
acagcttgcc cagagacatc tgagtcttna caccgggcac cggacacttc ntggcaaaaa 540
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<210> 6007

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6007

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acgtgatttc tccaaggggt gatggatgtt tattatcttg atagtggatga tggtttctcg 420
agtacacatg tncataaaaa cttataatat tggatacatt aagtgnntag ttactggat 480
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<210> 6008

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6008

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ggaatggagg caacaccaag gaaggccttg gaagaggtgt tggctgtctc agcagccacg 180

ccctccgctt ccttcgagcc agagcctctg tttcatttgg ctcttttgcc ctgcctcat 240
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 atcettacct tcaagggtgtt ggtattagga ggtggggctt tggggaggta attaggtcat 360
 gaggatggaa ccatcaggaa tgggattagt gccctctaag gcactaagaa aaggctggtg 420
 ggctagactc agtgactcat gcctgtaagc ccaacacttt gggangcttn agtggaagga 480
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<210> 6009

<211> 500

<212> DNA

<213> Homo sapiens

<400> 6009

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<210> 6010

<211> 312

<212> DNA

<213> Homo sapiens

<400> 6010

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g a g c t a a a a a a a t a a a c a a a a t c c a c c t c c c a c c t c c c t g t t c c c a c t t c c t c c c a t t c c 120
c t c c a a a t a a a a g g g a a a a a a g g c a a a g g a a a a a a a a a a c a a a a a a a c a a a c a a c t g 180
a a a a c a a a a a c a c c c c c t a a a c c c c c c a a a a c a a g g n a g n g c a t t t c c c c a g g g g g a a g g 240
g g a a t t t a c a c t g g a g c c g n t g g g a g c g g a a c g g a n a t n t t c c g g n t a c a g a a c c t g c a 300
a a g a a g a c n c t 312

<210> 6011

<211> 531

<212> DNA

<213> Homo sapiens

<400> 6011

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a g c c t c c a c c t c c c a g g c t c a a g t g a t c c t t t c a c t t c a g c c t c c c t a g t a g c t g g g a c c 120
a c a g g c a t g t g c c a c c a t g c c t g g c t a t t t t t t t t t t t t t t g g t a n a n a c a g a g t c t c a 180
c t a t g t c a c t a t g t t g c c c a g g c t g g c c t c c a a c c c c t g g g g c t c a a g c a a t c c t c c c a c 240
c t c a g t c t c c c a a a g n g t t g g g a t t a c a g g t g t g a g c c a a c a t g c c t g g c c t g t t t c t g t 300
c t t t a c t g n c c a c a t a g c c a t a c c t t c a t c a t c a t a t a c a g a a g n g g c a a a t c a t a a t t 360
a a c g g g a g a g t a a t a a g t a t t t t g g g g a a a a c a g g g a a t a g a g a a c c t g g a a c a t t a t c 420
t t c c a a c a g a g a a t a t c c a c a t g a a a a t t a a a g g a a a t a t a g c t a t a t g c a t g a g t t c t a 480
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<210> 6012

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6012

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 aactgtggca tgcattgttc tagtcatgtt ggacttctcc ttcagctttg attggagtag 300
 tgttgtttcc acaatgccaa ttctaattgtc catctctaca gtttcttgct tcagttttgt 360
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 catttcttgn ttacctttt ctaattcttc cataacctca gagaggagtc tggttctttc 480
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 ccnaattct tgacc 555

<210> 6013

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6013

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 ctctcaatct cacaccctgt cccagtctca cactttctgt gtctcacggt ggcatgcaat 360
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 gcctgtccag cgacaacat ggaaggtcac atacattctc tacaagtctn ctggtgtcac 480
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 atttctgggg naaan 555

<210> 6014

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6014

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acaggtgctt cccactgtgc ctggccaatt aacaatttca tttttatttt tagtagagat 180
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cttggcctcc caaagtactg ggattacaaa caagagccac tgtgcctgac caggctctaa 300
gattgctaatt ctggctatag aaggactaat gttggccacc tcagagacat tcattcattt 360
taagaaacat catctttcac tgaatataat atgacatttt ttagaaggca cagcatatat 420
gtaccataaa gagccatctc aactctgaca taaactttgn tatcatacag catgnttatt 480
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ggn 543

<210> 6015

<211> 530

<212> DNA

<213> Homo sapiens

<400> 6015

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ccagcttact tggatttttg ggtgaagtca gtgctgagtc tcccaactct gttggcactc 360

caggggtggg acagacactg tccctgggtg cagaggccct ggaggcagca ctgccctttc 420
 ccccaaaggc caggctctga ccttgagagt ggtgggagtg ggtgacctt ctggganggt 480
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<210> 6016

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6016

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 actgctcaca gagaggcagt tttaaacc aa gatttaact ctacattcta aagagaaaat 180
 caaatttacc atcaagcatt acaaatgagt ataatgagtt tcttccatga actccgcaga 240
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 gaaggcaaaa acatcctttg tcctggaagt tcaccattca attttagcca tctgcagcta 360
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<210> 6017

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6017

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caataatgca taagaattgt taatgagtaa ataaaagctg attatactat atttattttt 180
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ggnttttagt ggagacaggg tttcacccgn gttggncagc tgggtttgna ccccnacct 540
canggggaac cnccccc 557

<210> 6018

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6018

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aaggagtcag aattcttaaa tggcttactc agttgtatat atagttgagg gcagaaataa 180
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gcctacttca ctatgggata tgtgagtcca tcaataactg tcagtttcct ccctagttta 420
tccatatatc ccctaaatgc atgcccctgt tatgtcaaaa caattttttg agttgccaaa 480
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<210> 6019

<211> 530

<212> DNA

<213> Homo sapiens

<400> 6019

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agcatctgga cttgcttcat tagttctggg atgataactt ggtgtcaata aaaggtgtag 180
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gtcagctcta aacctaggga tgagcattta cttggggaca gcatgcccat tttggttaagc 480
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<210> 6020

<211> 507

<212> DNA

<213> Homo sapiens

<400> 6020

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tggaagggct gtgggaatga agactggctt gacagtggta ctggagctga aggctgttgc 180
tgcagcattt gtgactgggg gtcacccaac gggttcatga ttggtgatgt gatgggaaca 240
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cccgccatgc tggaaggatg ctncagagga aagggggang aaggaaagaa ntancaggct 480
ggangtangt gaaaangcct ggtgctg 507

<210> 6021

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6021

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atattatgag acacaggaat ctttacatcc aaaataattt gatacagatg ccttaacatt   180
gctgaatgag acaactttgg aaagattctt gttttgtgat tcctttttac cctctaagca   240
cagtgccttg ttaacactgt gtgtgtagta aatgtgtgtg ctgcttaagg taaagaattt   300
ctagtaaact aaatgcccaa ggtgactgcg tgattccatg ccagacagga aaaagcagtc   360
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ngataattaa aatattgcta ggtttggtat tcacaaaact ggagatcctg atggatantt   540
tcctcn                                           546
    
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<210> 6022

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6022

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ctttgtatca gagttgacca actgtttcct tacctgtatc aggaacatca agagcgacag   180
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cccaatgcaa tcaccaactt tttctttttt tataaatata taaaaaaca aaaagtcagc   300
aaaaccagca ttatgatgta gcaagcagag tataactctg aagtcagtgg ggtcagtaaa   360
    
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agccttatca gaccatccat agttttacaa tgtgatctgc tcttcctcag accactaata 420
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acaacttn 548

<210> 6023

<211> 543

<212> DNA

<213> Homo sapiens

<400> 6023

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tagctTTtct gcagcatgag atttactggc agaatttttc acaatagatt ttaaactctgg 480
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tnc 543

<210> 6024

<211> 599

<212> DNA

<213> Homo sapiens

<400> 6024

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 ctggggagcg gggggaccac taggacaaaag ggtctggctc atctaccggc gcctggaggt 540
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<210> 6025

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6025

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<210> 6026

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6026

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agtagctggg actacaggca cccgncacca cgcccggnta antttttgga tttttaagt 480
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<210> 6027

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6027

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555

<210> 6028

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6028

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gcatttttcc atatgtaggt aatagctcat aataaaaggt ttttttgaaa atacacaaaa 180
aaactacat tacactccca ccagactgga aacaatttaa aagtccaacc aagtttaatc 240
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attcccaggc atcttctaaa gaaaatggtg ggtatttgtg aaggttangg ttactangaa 480
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ggtttgancc cagaattnaa aactggctga accatttang ggga 584

<210> 6029

<211> 536

<212> DNA

<213> Homo sapiens

<400> 6029

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<210> 6030

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6030

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<210> 6031

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6031

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tcttaaaagt aagaataaat ttcagccagc cngacatgac tctattcaac aaacntgatt 480
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<210> 6032

<211> 503

<212> DNA

<213> Homo sapiens

<400> 6032

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gacccagggt gctggaggcc cggggtcacc tgaggactgc anaagtcctg cgctccgnta 180
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acgctgcctg ggccctgcccc tgcaggggccc gggaaccgag cccaggcctc tgtttctctg 420
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<210> 6033

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6033

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 gtttcttttt tgatcatttt tatttttgct tccttgctgt acacacctct ctttgaaatc 420
 attccttatg gctcctctta ccatattcct tcatcaagtg taatattatg agatttctcc 480
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<210> 6034

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6034

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 cctctttgac tgaaaatgac acagaaaaag gtgatcaagt cttccagggc ctgctgttac 180
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 aagagtggcg atttgaggnc cttctcctgg aaagtgaata gctggagttc tgaaaaatgg 480

tcccttctct ggactgnggg tttatttctt gggatcttgg accaaaggan ggnentgggt 540
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<210> 6035

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6035

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attgagataa aaaatattgt ttttttatga gaaaaaccgg acaaaataca gaatggccaa 240
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cattcatttc acagtctaaa aaaaatgcc aatcttactag gnggtacttt tggcagcaga 480
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<210> 6036

<211> 542

<212> DNA

<213> Homo sapiens

<400> 6036

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<213> Homo sapiens

<213> Homo sapiens

<400> 6038

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<210> 6039

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6039

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aatccatata atttaaggaa gtctcttaat tttactctga tgataaaatg agaggattta 540
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<210> 6040

<211> 607

<212> DNA

<213> Homo sapiens

<400> 6040

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gtatccccct cggtatatac tagcctgcaa tgaagaaaga acgagaccca catcatcagc   180
atggctccta gtcttggcat cagtcaaagg tgcaaaagca ttcatggcac caacgccgta   240
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gtcactgtag gcagcggcag tggcaggggt aggctgggcg tagcggtatg cagcataacc   360
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gcaagtgcgc ccctcggtaa gcggccccggc ggtggcttct tggataccgg naagcctggc   540
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<210> 6041

<211> 592

<212> DNA

<213> Homo sapiens

<400> 6041

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atttacatat gtttgtcagg aagaaataac tttttttttt tttgagacgg agtctcgtc   180
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catacatttt aagaactaat aaatacttgg ttcttccaaa attggcaggc accaaangta 540
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<210> 6042

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6042

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gaccctaagc tctttnggga ttatgtcgga caatcttctt canagtcact gggccccaat 540
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<210> 6043

<211> 606

<212> DNA

<213> Homo sapiens

<400> 6043

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gtaaaggttt ggatttccat aattcttttt taatcagtgn aaacataaaa taaggttttg 540
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<210> 6044

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6044

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<210> 6045

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6045

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<210> 6046

<211> 454

<212> DNA

<213> Homo sapiens

<400> 6046

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attacaggta ggagccgagt ccatagggtt attgngagga ttcaatgaga taactnatgc 360
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<210> 6047

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6047

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<210> 6048

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6048

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 caaatggtat ggatctTTtat aaattatgag tgnccTTTTt ttggccctaa cataattcct 540
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<210> 6049

<211> 590

<212> DNA

<213> Homo sapiens

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<210> 6050

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6050

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<210> 6051

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6051

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587

<210> 6052

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6052

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aaaaaggaat aagttatitt tttttgcttg tcttttttcc aaaatitttt cccaaacttc 180

atttctaatt atacaaatga ctaaggacca gtttaacaaa tcgtttttat gtatatatta 240

catgctttgg aatatagata gaaaatgttc caaaaaagtt gttcagaaac ttttctattc 300

acaatatgaa caagaaactt gtataaaaga aggggggaaag gagcaccttt tatgtaattt 360

tgaagcaaag atgacaaaaa agatcaatct ggaatatgga aatcatttgc tttaaaaaac 420

aaacaaacaa aaccctacaa taaaccatag ctaattagtt cttccangga aagtttgagg 480

nagtttagcc tcataattaa atccccgnag cttgggactt tttggcctng tgggggtttc 540

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<210> 6053

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6053

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taaaggcatg caccacatg cccagctaac ttttgaattt ttctgtanag atggggtctc 180

cctatgttgc ccaggctgggt cttgaactcc tggcctcagc aatcctccca cctcagctct 240

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<210> 6054

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6054

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 cgacttgcca gacgaggctc tattccggct gctgaacca cttttctcct ttattttaa 480
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<210> 6055

<211> 595

<212> DNA

<213> Homo sapiens

<400> 6055

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<210> 6056

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6056

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 ataaagatgt atggttccat cttgaatttc atgcctcacc tctgcattgg gtgtacaaga 240
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 caaatctttt gcagatttaa gaattttctt atcttttgga tatggctctc tacaggaggt 480
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<210> 6057

<211> 429

<212> DNA

<213> Homo sapiens

<400> 6057

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gatgtgtgag gcgatgaaga ggccagcaca ggagctgggg ctgttgtctc ggtccgccac  360
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<210> 6058

<211> 533

<212> DNA

<213> Homo sapiens

<400> 6058

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ttagcaattc catattcctt acaaagtcag tataattggt gtaaaaaaat caactgtggt  180
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<210> 6059

<211> 523

<212> DNA

<213> Homo sapiens

<400> 6059

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cacacacgct cacacacacg cctcactcac acacatgctc acacacattt tccttcttga 180
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<210> 6060

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6060

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<210> 6061

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6061

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tactctatgc ccaggctgga gtgcagtagc tcaatctcag ctccactgcag cctcaacctg 180
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<210> 6062

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6062

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<210> 6063

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6063

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<210> 6064

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6064

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<210> 6065

<211> 599

<212> DNA

<213> Homo sapiens

<400> 6065

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<210> 6066

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6066

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<210> 6067

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6067

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<210> 6068

<211> 348

<212> DNA

<213> Homo sapiens

<400> 6068

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<210> 6069

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6069

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<210> 6070

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6070

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<210> 6071

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6071

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<210> 6072

<211> 560

<212> DNA

<213> Homo sapiens

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<210> 6073

<211> 544

<212> DNA

<213> Homo sapiens

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acaggggcat gactgaggcc atgtgaaaat ataattaaac gttggtaaaa attcacagaa 480
tgntaaatcc cccanttnaa ggctgnacgc gcgcaaaaag nanaaacncc cggtttacca 540
aacc 544

<210> 6074

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6074

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tttattgaag agattgtcct ttccctatct tgtgttcctc acctttgtca taaataaggt 180

gactataaag gtgtggggtt atttcttcgt ttctatcct ctctattga ttgatgtgtc 240
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 ggggcatgat gcttccagac ttcttcattc tgctcaagac tgttttggct atttggtatc 360
 ttttatgatt ccatatggat ttaagctgta gatttgctttg ggtagtatga acacctgtcc 420
 aacatttatt ctccaatct ataaacacgg gatatctttc catttatttg ggntttcttc 480
 actttatttc atcagtggtt tatagctttc agaaaccaag nttttancct ccttgggtaa 540
 antaaaccta nggattttaa 560

<210> 6075

<211> 518

<212> DNA

<213> Homo sapiens

<400> 6075

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 cattggctgc agagccttgc agtcctggcc aggagtctctt ggccttgtgc ctttcanaag 180
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 agctttggct gtggcggtga ggacgggtgt gggaagccga gcagcaggga ncatggcagg 420
 gatgtctctg gggaccctct ggatgggccg gatgttgggg cccttcantg gtgnccagga 480
 tcccctntac cacttttggg gtaggcaaaa nncnnatt 518

<210> 6076

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6076

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 gcctgagcgt gcttctcccc tgtgtggagg ggcaggccgc cattgttgtg gtgtggctcc 180
 tttcatctcc tcagctgtcc agggactagg gtaigaaggg acaagaaaac caggcccaat 240
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 tcttctcccc cttggatgtg accagacacg tgcccagagc tgcctgctca tgggtgggttg 420
 tcctgcgttg gggcagtcct aactactggt cccacagaag aagtcttcag gaagctcact 480
 taggagtnca ttcanggcatt tgnctctngg aagtctttct taagggaacnc ttttgcctta 540
 ggtctgggct gttttnaacc ttcn 564

<210> 6077

<211> 565

<212> DNA

<213> Homo sapiens

<400> 6077

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 tatctacaat ttcattacat gtatacagca aataggcaag catggctttt acatccttaa 180
 tgattttttt ctatacaggg aggttttaaaa aaaaatactt gaacagtttg cccagtaatg 240
 tgacacataa tgcatgtacc ttgttctcat attttttttag gtgtaaaata aagattcagt 300
 aattttaact cagatatitit tctttttaaa aatagtgttg cagttttggt atttgcatta 360
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 ttggcaggca atataaaaaa ngctgcaact tctgcccttt gagggcactg tagtgactaa 480
 acagcatatc aaatttgnat ctttttgnaa tcacttcacc aatggatatcc tggncnaaag 540
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<210> 6078

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6078

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gcaagtctat ttgttcttta atatatcggt tagctgttca agacctttct gttcctgtgg   180
cactttgcct tcattttatt atactgtcat ttattagcat tgattacttt tactactagt   240
tcctcaaatg ttgggtgaag ctatacctta ttctctaaga cattagttgc tgtgacagat   300
acatccagat gtttgcctgt caaaccttac aatgtataga gttcatagcc ctacctactg   360
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ctgtgctcta cagttccatc ccatacctang ccagtgaag angaagaaca gactcttnca   480
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<210> 6079

<211> 472

<212> DNA

<213> Homo sapiens

<400> 6079

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aggcaaatgt gtttaataaa tggtaatggg acaaactgac tagtatttcc atttggaaaa   180
aaattaatgt agcattcagg gaaaaaaaaaac ttcccagcca ggcgtggtgg ctcatgcctg   240
taatcccaac actttgggat gccaaaggcag gtagatcact ttaggtcagg cgttcaagac   300
cagcctggcc aacatggtga aaccccatct ctactaaaaa tacaaaaatt agctgggcat   360
    
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ggtggcatgt gcctgtagtc ccagctaccc agggactgag gcatgagaac tgcttgaacc 420
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<210> 6080

<211> 356

<212> DNA

<213> Homo sapiens

<400> 6080

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gtctgagatg cttcagtgtg caaggcagca gctggggggg aggagggggg tcttcacagg 180
gacagctggc aagagacttc ctgaggcaca tcagctacgt tggncattt agggcacggn 240
ctggttctgc anctttgaaa gngggattct ttctattagc acactttaca agagggattg 300
naaaggatta actcagtcac canaancgaa acaccacttc anaaattcan anacct 356

<210> 6081

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6081

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tattcaagtt gtgatttttc tggttcttgg tatgacaggc tattttacat cgtatcctga 180
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agcctttgca gtgttatatt ggtctgcttg gtttatctgg tgctgctggg gttcccgaat 360
ggtccttcat gatgctactt tagggaaaga aggattttct cccaagccag gtcccatggt 420

atctctggga gaagggagtc tcaggctcan ggtaataaaa aatcttncctg gggtagaatg 480
ctttttggcn aaaggccctg gatgcctaata tttttaaccc caaagaccaa gnttaaggct 540
tggatgtttg gcaatgggga ttcctgatt 569

<210> 6082

<211> 524

<212> DNA

<213> Homo sapiens

<400> 6082

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agtgtcggca aaggctctgc acagacatcc acagtattcc acactgcctc cccatttca 180
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ctcatggggc agcaagaagg gtggcaaggg aaccaagccc tgacctgagc ccagtgatca 420
ggccagagcc caccaatggg actngccaca ggtccaggct anccccctnc ttcaccgat 480
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<210> 6083

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6083

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attctgtgta tgtatgtgca tgtatatctg tgtgtgtgtg tatgcaagct cacagctgtc 120
tgctgcatgt agcatcttgg aatatatctg caagataaga gaggtgctgt taaaatgttc 180

tcataattcta caggtgaaaa acaagggtg cattatTTTT aaactcatca accattcacc 240
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 aaacacaaaa cactattatg ccaaaccact gctaatttag aggacaaaaa ggacatgact 360
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 ctactttgca tggttgtagg cttcaatctc ttccagtaat acgctgtcgt tcaaagagaa 480
 agggctggct ttggccnaac ttttagtcca tggccngttt anangcccca agaataactg 540
 ggnagttttg gnaggg 556

<210> 6084

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6084

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 accttcagtt aaaaaaaaaa aaaagaagca atttctgcta agcacaatga aacaatgtat 180
 gcctgtcgt atggaggggc atggggaaat ttgggaggtg atgaaaatat tatcttgatt 240
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 gttttcctta tcctaaattc acagcttgca caggcaactg aaatgctntc atgcgtttgg 480
 accnatgga cactantgg gtaaaccggt ccggaaccg tttaccngtt aacttgantt 540
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<210> 6085

<211> 528

<212> DNA

<213> Homo sapiens

<400> 6085

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 tacagggtgtg catcaccatg cccagctatt ttttaaaaaa agatttcttg tagagatggg 180
 gtctcgttat gttatccagg ctggcttga actcctgcct caagcaaccc tctgtctct 240
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 ctattttatg tatcttcaag tccacagcct ctggcataaa gccagatgct tacagaaagc 420
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<210> 6086

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6086

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 tacaggcgcc caccaccaca cccagctaat tttttgtatt tttagtagag acggggtttc 180
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 gactcatnt tggngaaaaa aacntttgna nnnttgga cttgttgcct caaaacttgc 540
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<210> 6087

<211> 520

<212> DNA

<213> Homo sapiens

<400> 6087

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acaggcatgc accacatgc ccagctaatt ttttgatatt ttagtagaga cgggggtttc  180
tccacgttgg tcacgttgt ctcgaactcc cgacctcagg tgatctgcct gcctgggcct  240
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gccaaataat cctttccctc cgaaatataa aaccaggaca agagaaaaat gtgagttctc  360
tcaccaccta ttccactac cttccccctt cagaggccaa gtttggcttg catgtgatga  420
tcctgtctgc tctgtgtgc tcctacccat cttcactgac ccaacagaan gnggcgcttt  480
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<210> 6088

<211> 526

<212> DNA

<213> Homo sapiens

<400> 6088

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aaggtgtatg ccaccagcc cagctaattt tttgtattta gtggagatgg gatttcacca  180
tgttggtcag gctggctctg aactcctgac ctcaggatgat ccacctgcct aggcctccca  240
aagtgtctggg attacaggcg tgagctactg cgcccgacct caaaaattct taatacctgt  300
tgcacacaag tttttatgaa aattggcact tccattacaa caccgttctg tgggtgcaga  360
ggacaccatt ttcaagagca atttcacagc atctaactga aacgaaactg atgatccaac  420

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aatgccacag ctagacattt atcctgnaga attaggagac caactgnatt agaatatntn 480
tattgggcac atttttgcng gnaccaaacc aaccaaaccn ttaacc 526

<210> 6089

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6089

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ttttttctct aagcaatatg caaaagataa caatatTTaa ctacaaatat ataaacaatt 180
ttagtattat actaaggatt gtacttgaag aagttacaat gtaatggaaa taataactta 240
ccatattaca ggtctcaaca ctatcatgtt ggcccctatt cagagactgt gcagcgtaca 300
caattagtgc agcagcagtt ctgggtataa tatatgacaa ccaagtttac tggtaagctt 360
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ttttcagaaa tgttatttca gtcacttaat ctgnccttct atccatattc cacaggtctg 480
ngagttaacc tcatccaatt gctgatgagt cttctcctag gttgcaattt cttctttaac 540
ctttacaagc tcctttttct ctncctagcac tggngac 577

<210> 6090

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6090

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 ggtgaaccct tggacacaac agaaaatncc aangcccaga tccngaataa agaaggaatt 540
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<210> 6091

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6091

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 accaccacac ccggccaatg tttgtattht tagtagagat ggggtttcac catcttggcc 180
 aggctggtct tgaacctctg acctcgtgat ccacctcct cggcctccca aagtgctggg 240
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 tctaccatct tacaagttct nggggccaga agcccaacta nggctattaa ggttaaggca 540
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<210> 6092

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6092

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 ataatttggg ggggcacitc agggactcca attacaaagt tcaaaataaa tcaactgcacg 180
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<210> 6093

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6093

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 tttgtcattg tncatgtggg gaaaagcaac caagtaataa gacacaacag atatctctta 480
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<210> 6094

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6094

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caaggngaaa tgacatgcct aaaagtcaca caggagagct agaagagaaa aaaagcattt 180
ttttttccca aaacaagcag acaggatttt tcatgttaat caaaaagaat caagatcatc 240
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tctgctgcc ccaaaaccaa aaccttctnt aaacatatgg acatatatcc atcaagatgc 360
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gatgatgaaa taagttaatt aaatgtgaaa acatcaaaca gcaccaatcc tagaagttaa 480
gacaggaaat ncnctattat ttaaaatagt cnetggattg ggacagaatg gaccattacc 540
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<210> 6095

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6095

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atctgagcag gtttatttta tactcaacct ctgtatctct gattagagaa aagatacaga 180
tatcacaggc agagtcaagt gctatttgaa caccaactgg ggcagatgct agcttaataa 240
aaaagaaaaa attaaaaaaa taaaaataaa aacaatgaat cctcttccat gttacacaaa 300

atagcacaca gtgtatggaa aagaaatgaa gtacaacttt tagggagcac agacatatat 360
actgctactc ttaaaattct ttctcttctt tttttaagaa tgtcacattt aaatgcaagt 420
cttaagaatt catagttaat catcattgta tcaatattag cttatatacc tgnctagtt 480
ttaaatggca aatagtccca cggtgngcta ataaatcata ttaatttctt ctggtcctn 540
tggcaaacc c tattgggagc ncttccttta aaangggttc canggctn 588

<210> 6096

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6096

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ttacaggtgt atgctaccac acccagctaa ttttgtatth ttagtagaga tgggggtttca 180
ccatgttggc caggctggtc tcgaagccct gacctcaggc aatctacca cctcggcctc 240
ccaacgtgct gggattacag gcatgaacca ccacaccgg cctctacttc ttcttttgag 300
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tgaattgagt tccttgata ttccggatat acaagtcctt tgtaagatga atagtttgca 420
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<210> 6097

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6097

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<210> 6098

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6098

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<210> 6099

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6099

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cagagccagg aaggaagcaa tgttttaaaa cagataaatt tcctagttag acctttgggt 180
tggtctccaa aaatctgctg agctgtttcc ccagtaacct ccatcataga ttcccacccc 240
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atgtgctggg caatcagtgt gaacagtcag ctttgtctca tgtttggaag acagtttagg 360
tgatgcggtc agggattcat tctctggatc tccctgctca ttctcagagt attaaaccag 420
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tgaaacttca aatagggtca caagtcacag agctgaggaa tgctggcttt aacttcttta 540
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<210> 6100

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6100

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gaacaaacac ggggtgtggc aaagctcaat cgctgagcac tcggtaactc tgcaggaagt 360
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ggaaaatgga tttcttccac tgn ttggcca ttttaagtct aatcccaata aagtttggca 480
gcaa atcaga gcccaatctt ttatcagggg gctttaagga tttacggan ggacatttta 540
atggccttan ggaatgataa tgn cntgang gattnccttg 580

<210> 6101

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6101

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ggatggttgt gggataacct gtggatgaaa cttttt 576

<210> 6102

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6102

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cacaggcacg caccaccatg cccagctaataa tttgcattgt ttgtagagac agggttttgc 180
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<210> 6103

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6103

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 cctgggactt tcaactgacc agttgtcccc aaagcanaag ctacgagngg ctcttctctg 180
 gcttctggca tagctgcatt cctctgaatt taggggagga aacagttggg aaataccacc 240
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 ccgnggagtc cttntatcaa tggccagcag cttttgcaac agcagctggg ttcattccctt 480
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<210> 6104

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6104

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caatttggac tticagatcg ctaagccagt gaaaagggga tcctagctgt cacaaacgtc  180
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gcatttgcca aaatataaaa tgggtgttgct gaccccaatt ctgggagatg gtacttgaat  480
cttactgngc tctgagactt cttttcatan gccacaaaaa ggnaatgcca tatacctnat  540
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<210> 6105

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6105

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gggatcatag atgcccgtcc ccatgcctgg ttaatttttg tatttttagt agagacaggg  180
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573

<210> 6106

<211> 590

<212> DNA

<213> Homo sapiens

<400> 6106

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ttaaaggctc atcttgatag gaatagaaac aaaagggttac cccatagttc tcttacattt 180
ggaagttagc tatatagagg gtacaaggat attcattttc cttcaggaca aagtcattctc 240
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aataattgct aggaagcaaa cttaagtgat agctggtaag ttttttggtt tggttttgac 480
cagagatgat gaagtaggtg gatcttttct tgggttgctn ctaaactctt tcattttaac 540
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<210> 6107

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6107

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aattactggg agacaggggt tgtacactaa atattctaaa tgtttctaaa aatgaaaata 120
tattattcaa gagcatgtag tacttgcaaa tgatcaagca tticcaaaaa aaactgccca 180
gccctattaa atttataaaa tatttctgca atacagctgg aataattaca aggtacacaa 240

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 tgggtgcggt ggctcgcgag gtcaagagat caagaccatc ctgccaacat ggtgaaaccc 480
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<210> 6108

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6108

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 catggttgga gcaggaggaa gagagcgaag agggagtgct acacactttt aaacaaccag 180
 atctcgctaa gaactcacta tcacgacaac agcaaggagc aagtctgccc ccatgatcca 240
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<210> 6109

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6109

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tattctgaat ttacataatt tccatcctag tataatgtac aactccatct ctcaaaagtg 180
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tcagtctgac acacagtccg agtcaataag ctgccagact ggcggnctnt aaagaaactt 540
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<210> 6110

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6110

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ttgctgtgca aaagcttttt aattagatgc agtcctgttt gtctattttt ttaaattgct 180
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tccctaatac aaaaacatat agtggctgaa ttaattttta aaataagatc taactatata 480
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<210> 6111

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6111

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cccagcctgg aggcgcctgc tgctttggga aggctgggt tgctgccgtg aggctgccga 180
agaagctgcc tgtgtgccc acccctgggc cgacccccctt ctttggtgtg tggtagatgg 240
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acatgttggg ggaaccgggg cttgtcagcc aagtaggaac ttctgccctt nccttcagcc 480
caagtccan gtcctggccc ctgtgggcat ttctgntggn ccacnttcca nggagaaacc 540
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<210> 6112

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6112

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aaaccggana aaaagcaagt tcagtacttc accaaaaaat tattaanatt ggcaaagtnc 180
aagtgtaggg ctgtgactgc anatctggaa gggctgaaag gtagatctat gttcctttaa 240
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<210> 6113

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6113

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aaaatttggt gatataattg tcattcagaa ttaagcaggt tgattgctgt tatctagatg 180
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<210> 6114

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6114

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tgcaacctcc acctcccagg ttttaagcga tcttctgcct cagcctcctg agtagctggg 120
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<210> 6115

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6115

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 acccactcct tgcccagagc aaagtcctgc tttctctgga catactccat tcgccaata 480
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<210> 6116

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6116

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caaatgtcaa aatgtccaca aaaaaagtct ttagaaagtc aaatccactg tccatttgtg  180
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aacatccacc caccttgaag atatcctacc attcccaaaa cttttatttg gaacagcttt  480
taactttgaa atgnaaagtg natgcaaca cacnncact tcttgataag actggcgccc  540
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<210> 6117

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6117

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cctcatgaca ctggacagag cacacagcaa agggctcccg tctcatgaca ctggacagag  180
cacacagcaa agggctcctg ctactcccct gggatttttt ttttcaaatt ttcttttttg  240
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ataggatgct gttccccgcg gaggcagcgg ccttcagacg cacttnagca gaacacgtgc  480

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agcgctgctg tgccaaggcc tgaaaacagg gcccttgggg gccggncna agcggacccg 540
caagggtctt ggggccatgg 560

<210> 6118

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6118

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tgtgaaatat ctcgaggga gctttctttt tagagaaagc aattatttct tcttccaaaa 180
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agcccatttc ctccagtttg cagcgctgt aaagctcata gtgcctggta tgggtctgct 480
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<210> 6119

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6119

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tacaggcacg cgccaccacg cctggctaatt ttatttttta gtagagacag gggttctcca 180

tggtggtcag gctggtctcg aactcctgac ctcaggatgat ctgcccgcct cagcctccca 240
aagtgctggg attacaggcg tctgcaaccg cgcccagcct agtgttttgt atgtttattt 300
tctcacttaa tatactatgg aggtgttttc ctatattctt catccttaac agacaatact 360
gcattgactt tatcataatt tgttttaaca atcccataat aatgaacatt taggctgttt 420
ttagtcctct gctgttaatg ctatagtgtg catcctagaa tatccatctt tataaatttc 480
tctaatttcc ttgnaataat ggttttaagt gnaaaaatgg tgggtcaaaa aatgaatcgn 540
atttnaatg ggtaatat 559

<210> 6120

<211> 476

<212> DNA

<213> Homo sapiens

<400> 6120

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tcagggactg cccgcctggg agcagctgtc attggacact ggagtcaaga ggaggcacag 180
tctcctgcag tgaggggagg tttgcacccc accttgggag tgtggccttc atgaagacag 240
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ggctgttcca agcagagccc agtgggcaaa gatcaggact cctatccaca ttctgagtaa 360
gggaggatgg agccacctt tgtgcctctg gtgagaggca gtgcgatata acaattaaat 420
gcatgagctc tgaacttagg tgcctggacg caaatggagc ctatagctgn nnnnnn 476

<210> 6121

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6121

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 ggagaccaga tcccttcctt cctgggttga tgattggtgg gatcttcctc tgagcatcct 180
 gaacatattc atttaataaa tatttattga gcacctgctg tgtgccaggc actgtttgat 240
 gtgctgcaga atagagcagc aaataagagc aaaagtttcc accctcgtgg agcttatatt 300
 ctagtgcttt atgttgaata gtgctaagtg tggaagacaa ataataaagc agaatggtat 360
 tctggaatat cagggttaagg atgaaggcca gtttttgaat aaagacctga agcaaggcca 420
 ctggcagtga ttttttgggg aagaacattc caaacagggc atggcttggg tgttgacac 480
 gtgttagang gacagcatan gctggtatgg ctgcantgga atgtcccaag tctaacccca 540
 aattgagttt anaaaggctt nt 562

<210> 6122

<211> 487

<212> DNA

<213> Homo sapiens

<400> 6122

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 aaatactgga ttgatgaaaa taaatagata acaaaaaaca atatacatca tttctatgtt 180
 tgctatcaga cccacaagt atgtttgttt ttacaattca ttataggatga aaaacaaact 240
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 agcttttctt aataaaatgg gaacacattg ctaggtacac agaaacatga ttttgccta 360
 aagaacagct gaactgttga gagaagcaag ggcttcctag cggccttcca gtgtagcaga 420
 taatattacc ctgtgtaaca gagtattaca gagtttgcac tttccaagtc tgtaagtcta 480
 nnnnnnn 487

<210> 6123

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6123

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cgggcgcggt ggctcacgcc tgtaatccca gcactttggg aggccgaggc aggagaaatgg 180
cgtgaacccg ggaggcggag cttgcagtga gccgagatcc cgccactgca ctccagcctg 240
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cagatttcgg atttttggat taggaatact caacctatat ctccagttgg ttatcatctg 360
tgttttctct tttcttccag tctgataaaa atcaaagtat taatctttag agcaccatgc 420
gagatatagg gaaaactata tagaaaatac cgtgacatat attttttagat ctgcattaag 480
acaaagctat tatcggggaa tgggtgctaaa ctttanatcc ttccattaaa gaaaagaatt 540
nagatgnctt attggaatn 559

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<210> 6124

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6124

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aagtaggctg ccaacttatt cttataactc ctctccatca taatttctgc aaggccattg 60
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aaagtcaatc tagatggaaa acaagttata gggataattg gcaaagcctc ctttctatc 180
cctctctaag accccttttt gcaaggacta gaatgtgaag tacgtaagtg taaagaagtg 240
ttcatgaatg tgttttaatt cattcaaaga ggtattttta aagaaagatt tcaaatacaa 300
gcaaaagagg agaattgtta gatgaacata actgtcccca gaccaacaat tatcaattcg 360
tagccaattc tgttttattt ctgtccctag gaatttgatc ctttcaatta tttattctct 420
caccataaat acttgtcaga ggaagaatcc acttcatagt ttgcatcaga aaaggtatat 480

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gggacgttta ttcttttagct tttagatata ctgggtttct aataaatttt acnggaaccc 540
tnttcctaa aagaattcna 560

<210> 6125

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6125

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gcaacctctg cctcccgagt tcacgccatt ctcctacctc agcctcccaa gcagctagga 180
ctataggcgc ccgccaccaa gccagctaa ctttttgtat ttttagtaga gatgggggtt 240
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ccaaagtgt aggagtacag gcgtgagcca ccgcacctgg cctgcctatg tccacttttg 360
gcatgcactt ctgccacctt gcacattgta gactaacaga gtttcacat tcctgtctcg 420
ttgccaacc actcaccttc ctcaagaccc caccttcaat tcctgcttaa aatatgtaac 480
atggattctc cttgcttttt aagataaaga cccaaatcct tatactgact gnaagccctt 540
tggggggtacc tatgnctanc ta 562

<210> 6126

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6126

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aagtttattt agtaataaac ataagtcatg gctgacaact gagaaaatcc tattcacata 120
aaccatcata gattaataat acatagtatt tgtactttta tgcaataggg tcccaggatt 180

caaacaagga aatttgattc cagagttggc attatgtagt tatgtactct gctacaaaga 240
actagtggag gtaaacttcg gcagtaaaat tctcaacagt caaatattaa tgcatttcac 300
atacatggct ttgcatccgt agaggaagat cagttccttc agcacacgtg ccaatttctg 360
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gtgattcaaa attatccaga ggttcacat tcagctctct attagctctg ccatactctg 480
acatggctctg ntacttntgg cagtctttta tcccccttc agnggcaat tcaatggcct 540
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<210> 6127

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6127

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tcatgcgcat cagggttaagt gcaaaataga tatgtggtga tggcatgctt taaaaaggag 120
tcgccaagca tttcaagccg ctccaggta aatccgtcac tagcgtttga cagagtcaaa 180
gcctgaagaa taagtcagg attggggcca agagtccttg aggagtacc aatagaaggg 240
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acggccatca caggacttcc atctgaggta gatttgtag catttccatc aaggtattta 360
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gaatggaata tgaggnaatt ggttcacgg gtatttcctg cttgtagtaa tttaactgat 480
ttccttgga aaagctctgg tagctaaatc ataactggca tttggcgaaa atttgantgg 540
aanaaaaanc cttaattggt gggaaaaacg ntgg 574

<210> 6128

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6128

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 aatagctagg actacaggcg cacgccacca taccagcta attttgttta tttttttgta 180
 gagatgagtt ctactatgt tggccagggt ggtctcaaac tcctgggctc cagtgatcct 240
 cccacctcgg cctgccaaag tgctgggatt gcaggaatga gccactgtac ctggcccaga 300
 gcacacctaa tgtggcaagc acttctaggt aagtgttaag tatagaaaca taaagaagac 360
 caaaccttag catcagtgat ctccagttc aggagaaagc ggtaattaaa catacctgtg 420
 ccagacaagt gcaatgtaaa tgtgttcagc acaatcaggg gtatgcacaa tgggcttttag 480
 ggaaacagag tanaggcatc aaagtcattc ttataggcat gtcaggaaag acttgggaagc 540
 atttccngaa ntttgggctc aaaanatgng ag 572

<210> 6129

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6129

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 tgggcgcccct ggacagtccc ctgaggagta gggggcatcc agtctttggc acggtgcctg 180
 ggggcaggaa gtgactagca tgatcccagc taccctcttg tgggaatact gccaccaaga 240
 ggcagctctt tggctctgat aaagtcagtg caaatgtcca ggggtcaagc tctggaggaa 300
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 ctcaaaggca atgcttgac acngaanaaa aattctnggc attnttacc cgnggagatn 540
 aaaatgnca 572

<210> 6130

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6130

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cccgaggaag ggaccaata acctttcaaa acgcaaactg ctgcctgcgg tgagggccca  120
gggtcctcca cggagaggac aggcattctt ctttcccacc aggaaggagt gagcccggag  180
cctctgctat gcgcaaggcg gtgtgcaggc accggctgca gctttttgct ctcttctttc  240
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tcggcatctc gaccgttca attacagcaa cgaagaagcc accgctaagc gtggtcttgg  360
gggaagcccg gaggcagtgc tcggcacccg ggaacgtgct caggcctcgg tggggcccgg  420
gcaggcaggg cgggagctag cctgaagcgt ccgggttctg ctgcaacgca tcttgnacca  480
tgtcttcatt ctctnctgg canaaggagc acatggagta naccaaccnn ttna      534
    
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<210> 6131

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6131

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aaatgcaaaa taaaaaaagc tgttgataca tcacctcgaa aaattaacac aactaaatta  180
agggctatag aaaatatgtt cagcttatac catacacgtc atttaacttg aattttacaa  240
tttttaaact aatagaattc agatttatta cttgaaataa tggatatccc agctgttctt  300
cataatggca agcatattcc atatacaata caatttatat agcatagttt tatactctta  360
    
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agtaaaatat gttagtatt aaaagcataa aggaataaat atgccaagcg caaaatataa 420
 taatggaata gacttatgta ggtattaaaa tactgcataa tgacaaatac tgaattaata 480
 caactttcct attattcata atcataatat atgaagagaa aactgntcct atgccngggt 540
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<210> 6132

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6132

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 aaaattcatg gtccaccaa ttatttttca ttatttaact caataggaac tttcagatca 120
 acacgtacat attgtaaaa atagttgact ccacattatg caatatacta tagcaaagga 180
 atattaaaat agtagataag aaagggcact ggagttttgt aaaacaggaa aaaagaagtc 240
 ctgtatttta tacattgaat atttatccac aatagcataa tttgtctgaa aataaagtaa 300
 tgatctacaa ttatataaca aggagtatct tgggatattt caataattca aacatttatt 360
 ttttagaaaa gtggtatagc aaatgagaat tatgcaacta aatcaccatt ctaagaataa 420
 aatgtcaaaa ataatcctac atgacatact tggaaatggt catatccaac aaggcaaacc 480
 aggtnaaaan ggaaactaat tccaatagg aagcaatatt taccanggtt tgccctttgg 540
 ccttatctaa atatggggcn cctannggca gatacctg 578

<210> 6133

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6133

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 ctgcccgtcc ccaatggagc gtgacacctc tagcacgccc aaaacacgcc catccctgac 480
 gtttccttca gtttctgnat cctcatnecn tttcatact gagttnaat atgctctttg 540
 ctgangctta angnttgatg gtttgacttt ctaata 576

<210> 6134

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6134

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 tacaggcccc tgccaccacg cctggctaata ttttgtatgt gtagtggaga tggggtttca 180
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 agggcccca ccatgcagg angtggcctt cagggcagga atgcctataa ggatanaggg 480
 tggatgaatga aaatccctgg ttaaacttac cttctcancg gcaggaaggt naanggcttg 540
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<210> 6135

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6135

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ccgggtatcc tggaaaagtt tgtgtgcttc atacacagat aacattagca tactcataaa   180
aaaggctctg gccaaatggg atcatttggg ttttgaaact ctagatattt gggatatcca   240
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attatttggg tccagaatag caacaagagc tgggtgtagc tactgtttct caggctgggt   420
tttacgtgct tttggtagct tcataagccc caaatccttt tctgggntca attctataac   480
atgggncgtc ttctaaactc ctcggtacta ctggnaagtt gggncacggg caacatggac   540
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<210> 6136

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6136

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tacaggcacc cgccaccacg tccagctaatt ttttacattt ttagtacagg gtttcaccac   180
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agataaacac tgtcttaaga attagtacta cgccttaaaa aaaaaaaaag gcttttcaat   420
tgngaaacat cacagcaaaa taagttcatt tttacaacta gtaaaatatt agactatcat   480

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aattatcaaa gtttatgatt catagnaaaa tgggtagac tcagaatgng aaattagnt 540
taaaaaaac tgggtggttn tactaa 566

<210> 6137

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6137

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cttatttggt ctaaataaat aacattatct ggaagatata ataataaatt atagtagtat 180
gtttccacc acgatagtta agattgtgta cacatattca atatgaaatc ctcttaggat 240
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gcatggccac atgcacagac acattctctc actcactcca acacacacgt gtgcacacat 420
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ttcaaaaact aatggaaaaa attagctaag aatatggtta aaccatactt aanaagggtgc 540
tggntgncat taaganctta acatgcnnaa naagccctct caa 583

<210> 6138

<211> 514

<212> DNA

<213> Homo sapiens

<400> 6138

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agccctgccc caccctctgc cctgcggaag ccaagtcacc agctataana ccctgccct 180

cctggnnggcc caggaccctc aaagatgcac acagggggccc cagcgagggg cccctccgtc 240
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 aggaggctgg atgcttgccc gggaggactt ntcactggcn gggcttgccc gcttnttntt 480
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<210> 6139

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6139

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 ttttcttgct tgctcaggac tattaatttg acaaggttgg aatgtgcaca gcacagctga 180
 gacaccacca ttttaacact gaatcactat accatgaact gacagaaccc tgcatgaagg 240
 atgaaaaact catacccaaa gtcaagaatc acacagcagc atggagggggg aaaatgaact 300
 atatgatgct aaccgcattt aatttcgaag tgggggggaaa caggggcatgg ggagtgaata 360
 atgggtgaag ttccaggctc taactgtcat ccttaagtaa attaagtta actcatctat 420
 taaaaagtga gttaaaacag atgagtttta aggtccatct caactctaaa tgagatccta 480
 gcaaaaccan ggaatcncc ctttagatcc ttatgaaacc caggaaaagg tggggcccag 540
 tgcttacctg aggcacagtt ggaaccaccc tn 572

<210> 6140

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6140

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 aactctgtca tcatcccagt gtgaaagtgt tttagaaacc atatatgtaa aggcagggtca 180
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<210> 6141

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6141

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 ctgtccccc gtccaccagg cctgcaggct agaggtagcc cggtaggag gatgaaggac 480
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<210> 6142

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6142

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aagactctgt tatgatttta tttcttcaat tgttccaatc acagtttcta atacagaaat   60
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gtttccaggc tccaatagca gttctgttaa gaacagacag ccagtatcat cctgagcact  180
gaggtatgct ttccatggcc gagaccagc cctactcatt gcgatggctt ggatgttcac  240
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ccgatgagca actttaaggc taagccaagt tttctcaaaa taatcagcag taagctggcg  360
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<210> 6143

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6143

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caaagtagac ctctgtcttg gattactatg tacctggaca ggtgaactct tgtatgtttc   60
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agtccttggt gcgtatggac ggaaggctcc ctggcaccca gatgtctccc ttcgtcctgg  180
ctgacacaga gcatggtggt catctgctct tcatgtccag caggctcaga aagaactcgg  240
agttcccctc gcacccttgg gccaagcttt tcaagtccga gtgccaggac tggatgagct  300
ggggtttgtg tgtctgctgg cggcacagtg ggtgtgcaca agaccacat ttgggtatct  360

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aacaaacaca ggctcacaaa agggattttg gcatatctga caaagctttt tgtctgaaaa 420
gttgattga gcttcctttc aacttcatct tatcgtaggt gtagaattaa gtttcggacc 480
tggccaggcc ganaagccac tggatgggtcc tccggcatgg atctgnccct nagggcccca 540
tcaggaatgg gcaaagaact gccttaccag 570

<210> 6144

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6144

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gtgcgcctgg ctaatttttg tatttttagt aaagacaggg tctcaccgtg ttggccaggc 180
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aagaatccca aagtagtttt ccacagaggc agaaaagcag ttcaaggggt tgaaaatctt 480
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<210> 6145

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6145

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aggccccaag ctcagcagca gagagtttat aaataaataa attacaaaag cgggcagggga 120
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 cgggcccggg tggttggtcaa gggcttccca gacggtcacc tgctccgnet natgcccgt 480
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 tcgttngct tcatgccaac acgctttacc cgtngggact tta 583

<210> 6146

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6146

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 tgtgtgccac gacatccggc taatttctta atttttctgt agggatggga tcttactatg 180
 ttgcctaggc tgttcttgaa ctctgggct caagcagatg atcctcttac cttgacctcc 240
 cgaagtgtg ggacttacag gttgttcca ccatgccagc ccacaggctg ttttttagga 300
 ctagaagaca ctctctccc ctgtatcctt ccttcttct acatgtgcaa cctcattcct 360
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 gcatcactgc tggcgtctcc ccctaccaa cgccagccct tacttacctt ctattctctc 480
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<210> 6147

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6147

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cccgagcagc tgggactaca ggcgcacacc accacgcccg gctaattctt gtatttttag 180
tagagatggg gttccatcat attggtcagg ctggctcctga actcctgacc ttgtgatcca 240
cccgcttgg cctcccaaag cgctgggatt acaggcgtga gccactgcac ctggctggaa 300
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ttcaaaagca ccccaaagac cagtgcataa aaacaggtag cccctaattc atctgcataa 480
gacataactg nttatcaaac cgattataat caagcatttn cnaacagctg gcttatttct 540
caaaaagcat ttggcttaaa antagaatgg gatatnccaa t 581

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<210> 6148

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6148

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gctgtgaatt ttctgaacca tgtatgtgaa ttaatttgca caggttttcc cccattactt 180
agatgtacag gatttctttc ctgtgtgact tctcacatga ccttgaaagg ctttgggaca 240
actgaaagct ttccacatt ttctgcattt actgggcttc tgtccaatct gcgttcttac 300
atttttggaa gagcaaagcc cgcctgaagg ttttcccaca ctggctgcat ttacaggttt 360
ctccccagtg tgctttctct catgtttgtg taaagatgag gaccaacat acgttttccc 420
acacgtttca catttataga ctttctctct aagtttgnga tttgacatct gtggaagggc 480

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caagncttgc ggaagacttt tccaacgctg gcccanttac anggttcttt tancatgcgt 540
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<210> 6149

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6149

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tacaggcgcc cagctaattt tttgtatttt tagtagagac ggggtttcac cgtgttagcc 180
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ctactaaaat atatgttgat ctacataatt agaaattatc angnaagtag aattctaatt 480
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<210> 6150

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6150

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tatttgaaat gtgactgctt tgtaaaactc cagagtcaag gactcatagg caggaggatg 120
tcataaatta acaggaaagg atgagaaatc tccactccac tccctcctcc ctcccttgat 180

cactcattcc ctctcttcca ttcattaacc acccaccaca tgccatgccc taaggaagca 240
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 tccaaaaagt gaggccttgt tgggaaggga aaaaacagca aaggtcaagc ttggatgaac 420
 ccatccagaa ttttgcaatc agaaatacct agaaaagaat tatttttagaa gaacaggggg 480
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<210> 6151

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6151

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 tggctcctgaa ttttaacatg ttttgctcta cattaattca agaaataaaa tgagaaacag 180
 ctttgaaaat gagattaact ctttgctgt aattatactt actctataat tcaaactatt 240
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 aaaatcactg tcatcacaca taaacatcag aaacttttct tggacaacta gaccaatagt 480
 ttcctctatt ataattatct ttaaatacag catgtgtaac agttcagcat ttaaaaggac 540
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<210> 6152

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6152

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tttaatggaa cattcttggc ataaccttaa tttaacgagt gcatttctct tctcaccatg 180
ctcaatataa ccaaaattaa cttcccaact ctttaagcct tcttttttat cacaatattt 240
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gacagatttt tctcttctta taggatttga agaaaatata ttgaacaatc accaatttat 480
ctggtaaaga acaatctact ttaagatagc ttaaaagtta tangtgccan gccacaagat 540
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<210> 6153

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6153

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atTTTTTgt agagacaggg atttgctttg ttgccggggc tggcttgaaa cccctggcct 180
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gtttttttt ctttctttct ttcttnttt ttttgaaac ggantttgct cttggtgncc 540
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<210> 6154

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6154

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gtgaagcccc tccccataca tacactccgg tggatgtgag cgagggtcct gttgccacat  180
ctgggggttag gggcttggac atgctgccct tcatgggaac cttctgggta cctctcagca  240
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catacgggac atgcctggct gcagctgatg tccgttagcc tctcctgaca cgcagtaagg  360
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ctgccactct ggggtcantg agggctcttc ggggaagcca cactcacccg caggaggagg  480
aaacctncat tttaacctgca ctcacgtctg nggccggcct tgtnccggca gtctgggcnt  540
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<210> 6155

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6155

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gcccagctgg cacatttatt ggcattaaaa cacaagaccc tccccatcac caggaagcca   60
cgcccaaagg gtgtccctct gcccatttc tgcaaaaact ctcaggcctt agcagtagcc  120
tgagctgccc ccagggtgtg gagctgctga atcttctgac tcatcatttc catgacggcc  180
tgtttcatgg cgtgcttctc ctgaagagct ggttggattt tctccatctg cttgggttaga  240
aaatctatct tcctcttgaa gaagtccttg gcacctcag ctgtcttctc tacatagtac  300

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ccagttccca catcgatgag cacgtgttcc acatcatgca gcttccaggg gcatacatct 360
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 tctgganggc ttagacaatn ctataactnc aatggaagga agacggaaag ttggtcttaa 540
 ggngaaaatg atgatgctgg acaccttttg gnetgcctaa tcc 583

<210> 6156

<211> 508

<212> DNA

<213> Homo sapiens

<400> 6156

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 ggactacagg ccacggcaac actcccagct aattttttgt atttttagta nanatgggat 180
 ttcacatgt tggccaggct ggtcttaaaa ctcctgacct caggngaacc acctgcctcg 240
 gcctcccaag ngctgggatt acaggcgtga gccaccgnac ccagccgacc cttnttaaaa 300
 acncagagaa ctgaggtgtc ctgatgggca tccaaggaaa aagcagccca acgagttttg 360
 caggcccggg gtcancaggg ggaccaggct ttnacccctt acacagcccc gaatttntnc 420
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 ngttccacgt ctggaanaac ttgggaaa 508

<210> 6157

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6157

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tatagaactt atagcaaaaa tagttctagt tgatttcatt ataaataacg ttttcaagaa 120
cctgtgcaaa actgtcaata atttcctaaa gcacaattga tcagaaaaat ccatgattgt 180
tcagccttca cacccttctt catgtaagaa cacctttctg tacatctcac agttacttat 240
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tcatctgctg ggccnaaagg cttgacattg atgcccggct tnaatgacat ggggggctcc 480
attgagggag ttaacacggg acccaggggc ttganaatat atgggtgagg ttgcttcccc 540
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<210> 6158

<211> 527

<212> DNA

<213> Homo sapiens

<400> 6158

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gcaataatag agaactttta actttgtatg tcacagagaa tgnatatacc tttttaataa 180
aaagcctgaa taaaccaata actattaaag aaatcacaaa gctgattaaa aatctactat 240
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aataattcta atgctattta aattattcca gaccacagga aaaaaattga aaactcacat 360
attcatattt ttttaaagct agcacaactt caataacaaa acttgataaa gatagcatca 420
gaaggacaaa atacaatttt actttggaat gaaaatgcat aattctaaat taaatactgg 480
gaaataaaaat ccnctcngnn gcaaatcatt ttttcnaan gnccagt 527

<210> 6159

<211> 592

<212> DNA

<213> Homo sapiens

<400> 6159

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atgaaaacag atgatgtaag cattccaacc tctccttgac ttgccaatgt tagtcatgtg 180
gggtcaagtg aaattaaaaa ggccttgga accagagagt cctgggtttg aattctgatt 240
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atttaaatca atcaactagt ttaggaataa acatgacatc ttttgaacaa tttgcatgca 480
gaacttgna tataaaaaat gggaaattag gacttaggga ttactggta aatactcctg 540
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<210> 6160

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6160

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ataggtagcc aacaatctca gaattttgga tcagcccaga tggagatagc aatttgaaat 180
gtcttcgac ccttacttaa atgacgaaat gtctatcagc ccagatagag caatttgaaa 240
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tccattacag tgataacgta cagaattccc atgcgttatt acactttcct gagagtaaag 360
caattagaat aaccttaatc ctagcaacaa agTTTTTTTT gtaggtTTTT tTTTTTggT 420
TTTTTTTTgn cTTTTTgtt gcgtttaaaa catttgggct attccctgac gatctatcat 480
ggaaatttga tgctaacatt ggcactttga angcaaacta tttttaancc aatggatttg 540

gttaaaaacc ttatccaacc ggncttaaan cccgcttcca aaa

583

<210> 6161

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6161

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gaaggaggtg ggagagggta tgtccgggcc cccatctcct tgggtgtccc ttcttatgcc 120
ataatttctc cttggcctca gaggcacctt tactgcaggt gagggctctt tcaagcccag 180
atggagcctc aatggcctgg gtgacacca aggtctctct agactcttat gttctacctg 240
tctttctgaa agcccatgg agtggggagg acagccatga catagtaaga aaaggagaat 300
tccctagcac ctgactgaaa aaaataactg ggaagagaga cagtgacaat acacaataca 360
catgacctca cgtacatgga gcacggtgac catgaactgt aacattaagt atcacctcag 420
aagcattcca aacctgggtg actgancgcc ccagtagatg angaggagca ggaaggcttg 480
tgtggatgtt cacacaccgg cccaacttcc ccaagaagat aagcncatcat gggaaaatca 540
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<210> 6162

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6162

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tacaactgca caccaccagg actggctaac tttttcgtat tttcagtaga gacagggttt 180
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tcccaaagtg ctgggggttac aggcgtgagc caccatgccc agccttattt tacttttctt 300
 taacctgaca attaaccact gatgttactt tttgggagct aggttatata ttttttaggt 360
 tcttgattaa atggtaaata ttccagaaga cacatatgca gtatacatgc tgacttgatt 420
 aatTTTTTgt aacacctcag ggtagagatc tatttcatga tcaacacaat aaatangaga 480
 caaatacctt tgnttgcaag aaacagnttn ccaagcataa tgggatacct aggttaccat 540
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<210> 6163

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6163

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 gattacaggc atgtgccacc acaccagct aatTTTTTTT gtatTTTTtag tagagacagg 180
 gtttcaccat gttggccagg ctggtctcga actcctgact tcaggtgatc caccacctc 240
 agcctcccaa agtgctggga ttacaggcat gagccaccgc accgggccag tttcctgact 300
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 catTTTgttt tgtacttctc taatttatga ggcattcttt cttctcaaag caggatatta 420
 cagtgcagat taaaactgga tattaaagtt aatggtgaca aattattaag tagtttgaag 480
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<210> 6164

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6164

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 atacatgcac cccaaactga tctgttattg aaattttctt ttctggtctc acccattact 180
 ttaacatata agaggaatta acataacagc ctagagaaca gaaataagag ataatagggtg 240
 cttcagtacc acccaaatta tctactaaga ccacagtgtg ggcaacagaa tgcagattca 300
 tggtagtagt tccttgaatg aaagagttca gacagaatct tccacaaaca caaatttttg 360
 cggtatccaa atcttggcag agatggaatg gaatgatatg agagccatat ggaatcctca 420
 tagcgggtcc cgcgcttgcc ttcagggtgg agatgaacag gaangctcgg acccggcggc 480
 tgactcctgg gaagtctgct gacagaagnt taacacnggt tggccccctt ggcccgggtt 540
 ctaagcccaa gggggcnant ggccggtggn accctcccct tnaa 584

<210> 6165

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6165

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 gaatatgagg acaagctcta gtggtcatta aacccccctca gaaagtctaa gattcagaat 180
 gtctccatca tattagaaga aaaatgtact gtattaaaat tttaaattgca tttttacaag 240
 ttgtttttta attagtgttc tatttacatt gcagaacttc caccaactgc agtagtttaa 300
 ctttggcaca acattaagtt ccattttctt tgggtattgg atcctgcttt ttgagtgtgt 360
 atgccccaaa acgttttcaa tgtcatcaaa gattgggcaa attcacagta aatcagacat 420
 cttgagtga agaattgatt ctccctcaac gttttangca gattcagnca tctggattta 480
 aacagcttcc gttcacatgt cgnggagggt nccaaggggc actatcattg gntcttcttn 540
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<210> 6166

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6166

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acatatttgtt cttattactg atgggaggag gaaggtaccc aatctttcag cattaagtat  120
gattgttagc  tgtcggtttt tcataaatgc ttgtttacca agttgaggaa tatcccttct  180
attcctagtt  tgctgagtgt tttatcaca aacaaatgtt gaattttgtc aaatggtttt  240
tcttcataag  ttgagataat ccatgcgtgt tttttgtcct ttattagtag attatattac  300
attaatttcc  atatactgaa ccaagctttc attcctgaga taaattacac tttgtcatcg  360
tatatagtca  ttttaatatg ctgctagatt cagtttgcta atattttgtc aaagattttg  420
gctatattta  taacccggtta ttggtctgta agtttcttgg ggtatcttgg gttttgnaat  480
actggncctg  gaaaaagggg taaggaaggg tccattgga tccaattttt gggaaaagtt  540
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<210> 6167

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6167

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aattaaactg gggatttcaa aaaagtggcc tttattttcc aatttctata gcaaaaccag   60
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gccccagccc  acatttcctt tgttgaatga gtagagaaga ctgagaagta tcactcacc  180
gtgatgtggt  ttgtcccttt tccagccagt gtgttggtta taaaagtcac ctttcagagc  240
tttggtccct  gtaatgcccg tctttcctgt gtccaggaat aacctttgct actaggcagt  300
cctctgaaag  atttgtagaa ggttaaagtg gaaagggact tggaagctca tagaatccat  360
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gcctcttctt ttagcatcaa ggaattagaa gtcctgagag atgaagaatg ttgtcttcca 420
actcaaacca tttctgaagc catttccttg gtactgcatt gnccacaccc ttncceatgn 480
tatcctcacc cggtaagctg ntttaagtct ggacagnctg attggctttg gcagcaacat 540
ttgntttaca gattcctact taaggaagaa agg 573

<210> 6168

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6168

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agggctgccca gtcagctgct tttagtgcct gcctcagttc cgcccactct gggcagggag 120
ggacctatcg atgtgcctat ctttctacac aggggctgtg aatgaagctg caggctcacg 180
tgtaagggga aggccaggca aggaccagg acagtctgct gcagaggaaa ggggcacctg 240
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tcctgagaca gccaatgcta actcggtgaa aaaggttaag accgactaac attcacaaaa 360
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ttccactcag caaatgtaaa gccttttttc cccttcctt ccacatctct tctgggatga 480
gccccatagg atcctggagc aggggatgtc ccagggccag tcagaacctt accggagtgt 540
gaancaaagg tgccctttgt gggtnctggg gggggcaaca cttt 584

<210> 6169

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6169

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cccaggctgg tcttgaaccc ccaggctnta gcaatcctcc tcccctggcc tcccaaagtt 120
 ctgggattta caggtgtgag ccacatcaaa atttaaaaag caaaaaagac cccatgattc 180
 tgttacactt cttattttaa cttgaatata nagtcctttt gtttgtttgt ttgtttgttt 240
 ganacanagt ctgcctntgt tgccgaggcc anagtgcact gacgcaatct cggntcactg 300
 cagcctccac cacctggggtt ctaatgattc tcgtgcctna gcctcccagag tagctgggat 360
 tacaggcatg tgtcaccaca cccggctaata ttttggtatt attagtagaa acagcatttc 420
 gtcattggttg cccaagctgg nttcnaactc ctgagcttan gcaatncggc caccttaagc 480
 ttccnaaagg gctaggatta caggcatgaa nccncatgcc aggccaaata agaccccttt 540
 taatttgaat taccatcccc ttaagcngg 569

<210> 6170

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6170

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 ataaatgtta aattaaaaaa ccttcaaaga acacatatca cacattcaat ttttaaaact 120
 ttatataaaa gctctattat aaatacaaag ctaaactatc tgagtactaa caacacagtt 180
 catacaaaga aacttaacag tagtaaaata cagatatata agatgcttat ttttggtcct 240
 ttaggataaa agaactaagt tggTTTTTTT tacatggctc caggcacaaa aatagaatat 300
 aagatggtta ctgcaacatt cttagtgttt atccttgtaa ttctttaaat gtcaccagtc 360
 ataatagcaa tgaactcctc ttggtttact gtggttaagaa agaaaatgaa atagtcagaa 420
 atataaacat tttatTTTTT cagaatccac gactaccatt ttacactaag tatttaaaaa 480
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<210> 6171

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6171

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caaattcata ggatgtcttt ttattatgct aataatttaa tcacattcca tgggggtccac   60
aataaaactct ttatattgaa ttccattcca taataaaaaa aaaaaagaaa aaacaaaaaac  120
aaagcaagga gctctatitt tgggaaaaca atgggtgctc actgcttaac tggattgtat  180
tttatttggc ttttcaacac ggcaatacaa acatattatg aaatgagtga aaagggcata  240
ataatthtat tctaggtttc tactaccttc atgattaaga cttactagc tactgctgct  300
tggccataat ccactacagt ccctaaacaa aaaaactatg aacaaagaca aaaataatct  360
gtaatttctc ctacaaaggt taaccctaat taacttacag cagaggtgaa caagctactg  420
cctgtgtgcc aacataaccc agcttgtttt tattagtaag gttttacata ttatctatga  480
ttggtttcac actacattgg caaagctgaa taactgcaac agaaatcaca cagcctgcaa  540
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<210> 6172

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6172

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cataccctag tgggtgcctgg aactccagca agacagaact gttcattcac tcccctggaa   60
agggggctga aaccagggaa ccaagtggc ttgctcagcc ggtcccatc ccgtggagcc  120
cagcagtcta agaaccactg gcttgaaatt cttactgcca gcacagcagt ctgaagttga  180
cctgggatga tcgagcttgg tgtgggaagg ggcatccacc atttctgagg cttgagtaag  240
cagttttccc cgacagtgtc aaggaggctg ggaagttcag actgggcgga actcaacaca  300
gcgtggcaaa acagctgttg ccagactgcc tttctagatt cctcctcaca gggcagggcg  360
tctctgaaag aaaggcggca ggcccagtca ggggcttaga gataaaactc ccctctccct  420
gagacagatc acctcaggga aagggtggct gtgggcccag cttcagcgga tttaaacatt  480

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cctgcctgcc acttntgaaa aagtgcanca gatctgacaa ggaggattta ccgcacaact 540
tgactttgta aggacagntt gcttctnaag ngagtcctga ctcg 585

<210> 6173

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6173

caaaatgaag aactagtatt ttattccatc ttacatccat acaatcctat taatgggagg 60
agggcaatct tcagaattca ggagttctga tattgagaga atataaagga taaaaaaaaa 120
ttctctcata tttaaataaa gaatcttata atgccaaaga ccaacaacaa ggcaacattt 180
accttgaaaa ttgcttagng tcctttatgt gtaattccag gagggaaaat ctgctgcctc 240
attcttatct ttccttctac tcacgaaaat gaagatacgg tctttccata tcaattcatc 300
tatagctctt tcaactcaata attaaagatt tgggaaatat aacctatgtt cttgggtcaa 360
caacttccca agggaagaag catcttcagt aactctgaac ttcacaggaa aagggtaaat 420
cttgaagatg aagtactggc aaatatatgt catatccttt tccattctt tgaatgaaca 480
tacatncatc natanagtcc ttggatgnat ccagctggaa agaanggggtg aggtaggacg 540
ttnttccggg catngtactt gaatgatgga tttatc 576

<210> 6174

<211> 597

<212> DNA

<213> Homo sapiens

<400> 6174

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ggaaaatcct ccacctctaa cagagcgaag ttactggctt tctgcttgct ccaagaatcc 120
caaggcttga tgtttggaag gaattatctg ttcttcaact actcccagat actcaagaca 180

taagttacac acatctggag aagggttctg ccctgctgaa gctagatggg agctcaatgc 240
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 ggggccatcc caggcaagtg ggctcttggt gctctgggtg agccagaacc catacaagct 360
 gggctggcct aggaagccca ccagccagcc tgtgttcagc tacagcttct gtgttcttat 420
 ttaccatcat cagccacagc ccttgggagc aaagccctta gacgccttct tcaagcccct 480
 gctgggtggg ttcattcatta tcttggcctn ttccaaatct gaatgnaagc ctttgacagg 540
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<210> 6175

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6175

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 catgtgcaaa agtcccctag aaagctgggc ctgcagctgt gtaaaaaagg ccccccatgg 120
 ggcagagccg tgcaaccatt ttaaaaaaag agacagtgag agagaaatca ggccccctgg 180
 gagcctggct tgggtggagt gcacatcgct caggccgggc catgtgccag gccactcctg 240
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 gctcagcccc gccagaaact cagggtcttc tggcctcgca gccctcgcca gcccttctgt 480
 tcccacctnt ggccctgacc tggccccaat cgggccttat gtcacaattc caggganggg 540
 cactggnctt gacacaaaca aagggtttcn aaccctnggg gcg 583

<210> 6176

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6176

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 tggaacctta taaactcagc agactccggt ccatatatgc gtacatacaa cataacacat 120
 cccaacaaaa acagagcccc ccccccccc cactggaaca tctgccaatt aagagaaaagc 180
 caattttccc ttcccccaat gtttctgaaa ttttgagttc ccactgttca cttctcagtg 240
 gaactgggtcc cttgtggcta gggacattgg aattctctac catttttact gaacaaaaaa 300
 taattttttt tcctgtttca aaaaaggga tagtgacttt gttttctcca ggctccccctt 360
 cccccataac caatgtaaaa tacagcagcc tgtatcttaa taaccagcc ctacccccctc 420
 ccttaccag cattgtctac tggagaattt aaatacactt ctgttggaa ctgtcagctg 480
 tggatgggca gaagtccagg tgccaggcta gctcctntgc ctatgactgn gcaacnttg 540
 gaccttaact ttaccccaa agatgagttt agatccaaag ggg 583

<210> 6177

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6177

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 gcattgccaa catgcccagg ttcatagtaa agcttttgaa ccgtgaagaa ctagaaaaaa 180
 ggggaagaacg agggaggcag aggaggagac atagagaaag aacctttggt attagtacaa 240
 atcttgttct ttgcagggtt gcattgcaaa gcaccacagt acaataagcc caccaactga 300
 ctgtatggag gccagttga agctgaggta ttcacaggaa gaattaaaaa aagcacagag 360
 aggtccagac tggctaaatc gttgctttgg ttcaagcaag gcactcgtcc cgtggttatg 420
 tcacactttg caagtgaagc atgaggctgg ggggattgct gaggagaggt ctgccaagtg 480
 ggggtgtttt ctngtctang ctgccatcgc tctttctaga tcctctctcg tatgggtgtg 540
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<210> 6178

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6178

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atccatttca agaagcagtt tcttggactg gaaggcaagg gcatctgctg tttgttcctc 120
gtggcccaat cccaggcttc atggtgatgg agtgggcaga gcaccctgcc ttcattgactc 180
ttagtagaca gggaccaaga ggaaactctg ggtgggtccga ggtgggtttg agaaatggct 240
ggcatttact ggccaccaa atcactacag attctgtaca agcaaaagac aaggcaccag 300
aatgtaagtg tctctcctgg gcccaaaatc cttctcctg ggtaccgtcg tttctggctc 360
caggctcagc catagtata gacaaagtca tagctgctgg gctccttggg gatggggggg 420
tgggcttcgg gaatctggat gttctccagg tccaggaacc cgcagcttca tctncatgct 480
taacaagggt gccangnac ttttgggcaa ctactggac atgtccttcc caaaaaggca 540
cttgnggccg naatccnaat ccn 563
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<210> 6179

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6179

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gggtgtcagt aatatgccct gtccctgacc tcaaaggtaa agggatagaa aagagagggc 180
gttgacaaac tcattttccc acttcccact catggcttat attatctctg agcatctcgg 240
tggctattcc tcatttactt aagatgtttt agtcattctg gatgtgcaaa tgcaaggcaa 300
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gcattctccc actggccccc taacgggttaa ctatcctggc ttaaaatttt cctttgctca 360
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 aaaggagcca aaatgcgggtg acttgacttc aaccccaaca gcccctgtaa gtagccctgg 480
 ccaaacagaa aggctaactg aatgaagaaa aaaggaagac aattcatctc agtggccctt 540
 tttgacagct tncaangggg gtttgcctaa ggaataacaa ttttntaa 589

<210> 6180

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6180

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 tgtgtagaga gggaaagagc tgggtgcctgc tctggaggca acgtccaggt ccgggaaagg 180
 cactcgtggt ctgtgatctg tctcagtgat gggaggcttc cactcgtccc acaggcagcc 240
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 tgctgcagga acaatgtgag gctttatgtg gatcaactgc gcccaattgg ctgttgactt 480
 aatgctcctg gtgggctgct tatgggtaaa aatgggtggt cctgggttgg gaagggaan 540
 gggttacctg naaccnccgg aacnnngctt ctacct 576

<210> 6181

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6181

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 agttgaaagc tctagacaag acagctgaca aagatggact ggaaaggagt ctctgagaga 120
 gattttatag gtcacatgaa cggactcact gttaagcaga gcctacttta ggtcttacct 180
 aatcaaagt gtgaccagt tagccgatta atacacactc aattagatta gcaaggagta 240
 acatgctgtt tcaagtaaaa aactttgggt gtgaaattgc agctgtttgg agccatttag 300
 tagaggcaga gggcatgcag catggtcagt acagggtcct ggggagacgc tgtaggagag 360
 aaggtgcac ccctcagcat gctcctgcag tgcccagcat cctaaagtac tcggtggcca 420
 gcagcctgct ccagagactc tctcaaagg ttctgttggt tgaagtctcc catgagatcc 480
 tncccagcac atgggagtag aaataccatg caagttcgtc tggtagacac ccagcaaatt 540
 ttnggcactt catganaccg tgttcctttt caaaaggcag a 581

<210> 6182

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6182

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 tcatcgcaat aatttcact gtatctcctg agtcatactc acgatcattt ctcataatat 180
 catcatcact atcatggcaa gagacacgat ttttgatacc taaacctatt aaagaatgca 240
 gtttgtgaac gcctgatttg aaatcatccc ttacaacttc aaaaggatca ctttcagatt 300
 catttattga gggttgtgta gttctctgta agttttcctc tttcgcaatc atcattctca 360
 attcatcttc agaatcagta tcatcatcag aaatgctgtt tctcttcttg gcagtttcca 420
 agccagaagt cttaaaaggn agatttttaa gtttctgagt atcagaaaca ggtcnggaga 480
 tgatttagaa gngtaatgg aatcncaagg tcttttttgg gcacccgggtg ctggggtnaa 540
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<210> 6183

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6183

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gtcagacttt attctgaaaa taccataaag agacaaaaag agttagtcaa gtattcttgc  120
ctgctggaga cacagaatth caatagcacc ttttttaaaa aaagacatga acatttataa  180
aattgcagaa catatcttac atattcacat ataaaatcat gaaccaataa taatccggat  240
ggaaaaactg atctgtttca tcaacatcaa taaacatttt gttgagagtt tgttccacat  300
attatacttc cctcagtata ttagaagtac ttcagctttc tatttgaagt ggttttccta  360
aaaataacct tttcccctgc tcaggataac cagctattat tatagtatac atattataat  420
aacaaggnat atgtctttga cctcatatat gactnccag ttgctcagga atagattact  480
ttcatacaca aatgggaaaa gatgtcaata ttgatgatag tatcgaaaaa gtggagctac  540
ttaactgng taaattaacg atgnca                                     566

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<210> 6184

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6184

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gagatggagt ctgctctgt caccaggt agagtgcggt ggcgcatct cggctcactg   60
ccagctccgc ctccaggtt catgccattc tctgcctca gcctcctgag tagctgggac  120
tacaggcgcc cgccaccatg cccagctaatt tttttagt tagtagag acagggtttc  180
accgtgttag ccaggatggt ctcaatctcg acctcatgat ctgcccgcct cggcctccca  240
aagtactggg attataaggt gtgagccacc acgcctggcc aataaaagca ttttaaaata  300
ccaaatattt taaaatacca aataatcaaa aagtagttgt caacactggc caaactgcc  360
aagatgttaa cattagagga ggcttgaaga agaaagaagg agggaggaat aaaaaccaag  420

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gagggagaag agctacatta aaaagagaga gagatgtgaa atgaatccac aacgtcatca 480
tctaagcaac aaggnacctc ttcctcctgg attctggcac ctatatcata tttcnttaaa 540
atggnatgaa tcaanttttn caaatggcan g 571

<210> 6185

<211> 568

<212> DNA

<213> Homo sapiens

<400> 6185

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cctccctcct tggcctccca aagtgtctggg attataggca tgagccactg tgcccagccc 120
tcataaagtt ataatatggt agcctagggc tggctactcaa tatgctgtgc ctgcagtat 180
aatatTTTTT cacactcaag cttgttagct tttcagacga ctttgggttt atagTTTTT 240
aatgtctgcc agtaaatacag tcaaatgcaa atgctaaaga ctgcttcttc caatatatca 300
ttaaactcat gaagacataa aaatgatcta ttcctgtctgt caatataaaa tatagaaatc 360
ttagacctaa aagtcttgca tatactttca ataaaagtag aaataacaga agttactgag 420
tttgattaag agatgactcc aaaaccttta acttctgaag ggatcatcta cagcattggg 480
tttaaaacta gaaaataaga ccaacaaaaa tatccaaata cnggttggtg aaaaactatg 540
ccatctatca attngaattc aaaaatcc 568

<210> 6186

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6186

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gaattcagtc aaaaagaata agcagtgtaa aggcaataaa gtaataaaat cagttagtgc 180
 ttaattagat atggcagggg aaaaggggtg ggagggggag actgagccta tctcataatt 240
 gtttcccagc tataatttgag gactgaagtt acttttagcaa gtatgttttg taacaagtag 300
 aaatacaata aagatgtaaa ttgctttat ttaaagggtta aagttatttg cttagtggta 360
 cataaaaggc ttcagaaaaat tcaagtttaa caaaaaatgg aagtgtaatc aaagaaagtg 420
 cacttaaagc tgtttgccag caattaaaaa gtagcttcta tacagcttct attagatgac 480
 ttttcaatca caaaaagagc atagtcataa aaaccattct tttcaaaagt gccgttttaa 540
 ttttaaaata aaccnaaata cccccaatca tgn 574

<210> 6187

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6187

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 cccaatttct acccctgtca ttaaaagtca ttctttccct tgcttatggc atgtctagct 120
 gacagagggc aggacaactt ttcaacaggg aggtcccact ttaccctaa tcttggaat 180
 gccattccca tgagaggctt tcctaagatt ggtttcagaa gtgtcacagt tgggggtcaac 240
 aggcagggtc atgttctgcc cctctctag tggcattctc tctggggaga aagatcctag 300
 gctttctcaa ccatcagtgg atcactcaaa acaaaaacaa aaagaagcag caacttacia 360
 ttctaccac atgtatcgcg ttcattcttc tattcttagg tcctaggagg gtcattatat 420
 aaagaaatga atgactagat aaatgactgg aaataatagg atgaaaaaca tcctgtcctt 480
 caggagtcc atttctagcc nggagactga gaaggcattg acagtgaan tgcaagtgc 540
 gtgaangaac tntangctca ngggcccagg 570

<210> 6188

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6188

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gcaatttcat agtttttatt cagtggactt aaagccaaga aaccatccca ataattattt   60
acaatttaaat aactgaatga ttatcagatc gtgttatact gcaaaactgt tcttacacca  120
tgaatgctga tgctgtgaac tttggatgtt aaactggtaa aagctggagg cttcaaatgg   180
catatgcaaa tgtaacccaaa gcctgaggac tatgaagaaa gaggagtttc taccactcgg   240
catttatagt ttttatatgc attgcagaag catggggaat taagtgatct ctgaaaaaaaa  300
tgctttaaaa aactgagtat acatatagcc tataaggtaa aaatccaagt tacaagtgtg   360
ttaaactctg gcaactatgt tatcagaggg aatactgaat tatatatata cataaactgt   420
cattaaactg tgattacatg atacttccta ccacagctta ttagactgtc aacagaagat   480
attcctggng gctctctaag ctccagggtt aaaagaatta agatcttccc cttggctcaa   540
agctaatacag tatcattcta tacctaaatn                                     570

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<210> 6189

<211> 342

<212> DNA

<213> Homo sapiens

<400> 6189

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gctatTTTTg ttttctctcc tctgtgttgg tcgcctgtct cgctccctct catgctctct   60
ttctctcttc tattttgtct ctactattc gtgttttgtg tttgtttcta ggtttggctc  120
aattggtaag ggtgggattg aatttgctga gccccctagt gtaacagtct tctgcctttg  180
tgggtaaaga gtggagaggg gggaggggga cgacagacag acatcccttc ttcccacccc  240
cctccccacc tgccccccgg caaccgaggg tgcccatttg gtttggtttc tattgnacag  300
acatctnang atggctcaca taggcggnaa ggangaagn cn                               342

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<210> 6190

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6190

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caaaagcact ctatatatgg agtggcacca gatttaacct atttaaata aaagtcatac   60
aaacacaaaa tatatttctg tgtcatgccca gctcattata taataaacat gttatgacag  120
ctaattctac tagaattact gtgaatactt acagtacact gaattttatt ctttcacatc  180
catttttagtt ttaaagagag gttcacgagt taaatgacaa tggcatggct atcttgaatg  240
gggtgcaaac atcattgggg aatgtggatc caattaatcc gaaggtccgg tgtgaccctg  300
attagtttta tagacaagag aagggtttaa gatagggtga aatgagctat cagtggtttc  360
aatgtctcat gaaagaaaga aatgcattaa aaaaaaaaaa gtttgtcaaa catccgtgtt  420
atgcaattga gtattttctt tgtaacgtgc aagaaaaaat atgtatacat ttcataagta  480
tctttagaag tattttgnct taataggtac ttacagatta tncaaggcan aactgnntta  540
atgcagnttn ctacaaaggn cttaaaatg                                     569

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<210> 6191

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6191

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aagccccga gacgggagtc ttgctctgtc acccaggctg gagtgaaaag tacagtgcac   60
tttgctaag cacatcctgc acatttctgg agaattataa taaacttate tgcaagtgaac  120
gcaggcctcc tcttctgtaa tctctcaaaa catctggaat atattgcata tattatgaaa  180
gggacatctt tttcacagat gccccaccgt tacaacgtgt acctttgctt agtttaaaaa  240
ttgactttaa tactttatgc aaatagtgcc tgtcccaaat tctagcatgc acatggatct  300
accaacaaaa aaactaagtt ttcagtgtgt gaacataaac ttcaaattaa acctctgatg  360
ctttagccca tgtatcaatt accaacagat tttcttcate aatgtctgca gaccacattc  420
atgatttcta taagacagaa atagagcaga taaactatac tgnatattgt gagtacagaa  480

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tttgtgggaa cataatgctg caaatgaaag ctacaaacac tctgnaaata gcttagaaaa 540
actagtaatt gaaatcncca agtnccngct 570

<210> 6192

<211> 568

<212> DNA

<213> Homo sapiens

<400> 6192

gagtcagagt tttgctcttg ctgcccaggc ttgagtgagc tggcgcaatc ttggctcact 60
gcaacctccg cctcctgggt tcaagtgagt ctctgcctc agtctcctga gtagctcact 120
tttcttcaca tccacagagt acataccatt tcttgctgtc aggcaaactt tagaaatttc 180
tacaaatccc agaaagaatg ggtaagcagc ccctgggtcc cttcctagcc cttaccttg 240
atgacaagat ccacatagcc gtgacacctc tcaactggta caggagtgtg tggcctgatg 300
accaggctgc catcaattcg ggtggagagg tagatatgtt tgcctgggga ccgtgcagag 360
agctacataa gggttgcttg tgatgtgctg catccctcaa aatactcaaa gagatttgag 420
agaacaagat gtcttgcttc tgctgtggtc ccaaggagct acaaggcagg gaagattgcc 480
ccattgagcc ctgagttgga tctcttataa gcgccccagt tgaggaaaca cttatttccg 540
cgnttnctgg cantactggc agaacctt 568

<210> 6193

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6193

cggcaactat aggctttatt ttcttgccaa ttctttacag aactgtaagg cagttgcttc 60
tttcttccgt ttagatagat ctctgttat tgctacaaac tgggattaat ttttaagctt 120
caaagttaca ttattgccag acgcagtggc tcatgcctgt aatcccctgc actttgggag 180

gctgaggcag gtggatcacc tgaaggtcag gagttcgaga ccagcctggc caacttggtg 240
 aaacactgtc tctactaaaa atataaaaaa ttagccgagc atggtggcag gcacctgtaa 300
 tctcagctac tccggaggct gagacaggag aattgcttga acccgggagg cagaggttgc 360
 agtgaactga gattgtgccg ttgcgctcca gcctgggcaa caggagcgaa actccatctc 420
 aaaaaaaaaa aaaaaggga angaangtta cattattatt gggaataaat atctgcattt 480
 ccttaagcct ttggcaggct atgttaccct ctatntttgg agaaggacct tgaaaagtga 540
 nggcnnngncc ttcaccttat acctgcnttt ttt 573

<210> 6194

<211> 502

<212> DNA

<213> Homo sapiens

<400> 6194

ataaaagccc ttggaatggt caacacttct tatgaataca agcaaattaa gttgttttaga 60
 ttcaatgaca ggctgtcata ttgcaccata caaaaacaaa tttcatcaaa gctttcagtc 120
 ttacagtata tacagcaatg cattcatatt gtaaaagggt atttttttgt gtacagatga 180
 agcaaaacaa tattttttact ggctgaaaca aaaagtggaa caaagtctcc aacaatagag 240
 gtcagtggca cctactcctg tgtggctttt gtctcttttac tgagcaagag gcttgtttta 300
 ggttttcttt gncctctgtt ctagttcatg ctggtgttta ataagacgtt ctatttctgt 360
 tccaagtgtt tgnagatttt ccttcaaagt aatatttttt agtaacgtat cctccaaaac 420
 agcctgtaat ttctggttga ttcccaaaga gagctccaat gttaatccat tggcagctgg 480
 atgggatgta tataannnnn nn 502

<210> 6195

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6195

aaaaggcagg caggaaccaa catttattaa aactttgctg tgtatatatt atgctggaca 60
gctaataaca tcatattgta attcctactg aatacttttg ctcataagag ttttttact 120
acagacaaat tgggtaaaat caaaatctga cattacagga attactcaag tttcaatgcg 180
tcaactgtagc taagccagtg aactcctttg ttctgctgag aaagagcaag aagaatgaat 240
cttcacagga ctactagaaa cttcttccca gcaaggatg aggaagccct aagtcaatgg 300
tgtaatccta aatcagggtt tgaaaacca cctaacaggc agagtgaat taacaggcaa 360
agtgaatca ggcttccctg ggaaagtctc aataggaaac aacctgtaga tgagtcact 420
ttgaggtcca ggtgtttctt aactctctcc aagtccttcc caccttcaga atccagcaga 480
aacncnaaag agaacttgn cacttcttct tggctctctt cttatccttg gctttacctt 540
tggctttgga aacctgntat nacnttggg 569

<210> 6196

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6196

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ttctttaatg tctacagatg atcaggatgat ttaatccatt tcagtattcc aactaccacc 120
tggaagatgc taataacttg aaaaaattgt cttcagttca tatctgtctt cagaaaccca 180
aatatatgtg tctcatacat tcctaacaac atagttatat cagatcaaca tatgaataac 240
tgaatcattg tctgccaaacc taaagtcttt ggtgtatata ctgttttaaa tgctgtgaaa 300
tattataaat atagtactg attctactgc taagtatcat atacttaaat ccctctgatg 360
ctagtaaaaa gaagaaaagg aaaaatcacc caataatttc aatgcatatg tcttgctttt 420
gccataaaat atgcttggag gttaaatttg ggaaagtaaa aatgccaggg tattaagtat 480
ttattggtga ataccattat tccnccaact acagcttaaa agaacccta tgtantgngg 540
gnccagagtt ngcacttcta tacctagncc ttggaag 577

<210> 6197

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6197

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cttttctttt ttttttttga gagggagtct cactctgtca cccaggctgg agtgcagtgg 60
cacgatctcg gctcactgca agctccgcct cctgggttca caccattctc ctgcctcagc 120
ctcccgagta gctgggacta caggcgccca ccaccgcgcc cggctaattt tttgtatttt 180
tagtagagat ggggtttcac cgtgttagcc aggatggctc cgacttcctg acctcgtgat 240
ctgcccacct tgacctccca aagtgcctggg attacaggctg tgagccacca cgcctggccc 300
acagtacata atgttaatag tacctgtggc gttgtcacia gtggaaacca gatatttttg 360
ttgcagatat cttgaaataa tgtcaatgct tataatcact ttgatattat agttgttatt 420
acgcctgcac cagatcttat ttattggata aataaataag cccacatact tggcattttt 480
atatttgata actattatgn caatataatg gattncnttg naatcctata aacccatata 540
tagccttttt taagaactcc tccaattttc naaa 574

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<210> 6198

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6198

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gagaatgagt cttgctctgt cgcccacgct ggagtgcagt ggcacaatct cggctcgtctg 60
caacctccgc ctctgaatt caagcaatcc tctgcctca gcctccctgg tagctgggac 120
tacagggtgca caccaccatg cctgcctaatt ttctgtactt gtagtagaga tggggtttca 180
ccatgttggc caggctggtc tcaagctcct gacctcaggt gatccacca cctcagcctc 240
ccaaagtgct gggattacag gtatgagcca ccacgccag ctgataggag agctttgatg 300
gaaaccccat atgtgttgct agagtgtgag ctccatgagg acaggacgtg gccaccagcc 360

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cccatggcac cccccgcatg gtgctgggtg ggggaaggca cttggcaagt gtgtgcagat 420
 tgcattgacaa ggtgcaccca gccttgctcc aagaaatcct gagcacacaa ctgcagggtgc 480
 acaaaagatg cagacagntt catgtgtgca cacagacagn tactnctttt tgcagcctac 540
 ttccccagga tgancacccc ctttggaan anaa 574

<210> 6199

<211> 542

<212> DNA

<213> Homo sapiens

<400> 6199

ctggtcaaac tcccttttta ttaagggtta tcaagctgta cacggtccct accctgctcc 60
 gctccgagtt cgggcagcgc aattcaccac tctcccaaag ccggaccaca gctgggtgag 120
 ggggtgggaca gagagtagga gcagtcccag catgcagtgc agcagcccaa agcctcgggc 180
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 aaagatggca agggcagcaa agtatttcca tctgtctcct acaatttaga aaccttcttt 420
 tttagtgtca aaatatagcg ttgaggggag ctggacgcta gggctctacc ctaacgcaaa 480
 gcaaaaagcc gaacngnacc ggaaccagcg aacngaacan gggccagcng nacacacang 540
 gc 542

<210> 6200

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6200

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 atgttggtgc aaaggacatg atttggttct ttttttacgt ctgcggagta cttcgatggt 180
 gtatatgtcc cacatcttct ttatccaatt cactgttgat gggcacctag gttgagtcca 240
 tgtctttgct attgtgaatt gtgctgtgat aaacatacaa gtgcatgcgt ctttttggtg 300
 gaatgatttt ttttcttttg ggtgtatata cggtaatggg actgctgggt caaatggcag 360
 ttctgttttc agttctttga gaaatcttta aactactttc cacagtggct taactaatc 420
 acattccctc caacagtgtg tacatgttct ttttctctgc agctttgcca gcatctggtg 480
 gttttcgact ttttaataat agttggctca ttttctaagt gaatggttgg tctttactgn 540
 tgagtattgg gagatatnln catctan 567

<210> 6201

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6201

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 cagcttaggg tggaaaagga aggaaaaccc aagatgagtg caggtgacga ccgggcggcc 120
 cccacagggt ctctgcagga ccacaggagc caagactcag gcataagagc atcaccttt 180
 cagcagccaa ggcgggtggc accttccct ccatggtcac tggaggctgt ggggccatag 240
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 gccttgcaaa agggaaagtt ccttccaagt gtggattttg gggctnacct ttgnntttcc 540
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<210> 6202

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6202

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tccaggaaaa actatatggc tgtgtgagac aaataagcaa ccatttgata gtgatttttg 120
cctaaatfff aaaataaaaa tgtccacact cttttgttaa aacattaagc ctctgtcaaa 180
aatgtatttc ttatttttagg gtacaggatt aaaggacaag atgatactca caagtaaaga 240
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acttataaca aaagaaacaa gattgcaaac aaaaatgttt acggggtttc caaacataaa 360
taaatagaat agtgfttagg cagtagggct catgctgatg gctagcagga agttaacaga 420
gtgtaactta cttggaaaaa atctttaatg tcaataaagc ccaaattatg gactgcagca 480
atttaatcat cactggcatt tttcttactt nccaaataaa gccttgatta accattcatc 540
cctatatact catcccttac ttcagaaaat ggn 573
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<210> 6203

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6203

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gtaacctcca cctcccaggc taaagtgatt ctctgcctc agcctcctga gtagctggga 120
ttacaggtgt gtgccaccac acccggctaa ttttgtatft ttagtagaga tgaggtttca 180
ccatgttggc caggctgac ttcaactcct gaccttgta tccaccacc tcggcctccc 240
aaagtgttg gatttatagg catgagccac ttcacccggc cccatcctft tatttcaact 300
tgaaaagaac taaacccaaa accagcataa aaacggcaat aataaaaatc agagcagaga 360
taaacaata caaccaacaa aactaagagt tggttctttg aaaagatcaa ccaaactgac 420
aatccttag ctagattaag aaaaaaaaag aacattcaat aactacaatc aggaaatgaa 480
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aganggacat tactaccaat acgacngaga ttaaaaggat tttagagaat ntatgaagaa 540
atggtgcctc caanttaata cctaaaagaa 570

<210> 6204

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6204

at tt t t g a g a c g t a g t c t c a c t c t g t t g c c c a g g c t g g a g c a c a a t g g c a c g a t c t c a a c t 60
c a c t g c a a c c t c c g a c t c c t g g g t t c a a g c g a t t c t c c t g c c t c a a t a t c c t a t g a g t a g 120
c t g g a a t t a c a g g t g t a t g c c c c a c g c c c g g c t a a t t t t t g t a t t t t t t t t t t t t t a a 180
g t a g a g a c a g g g t t t c a c c a c g t t g g c c c a g g c t g g t c t c t a a c t c c t g a c c t c a g g t g a 240
t c t g c t g a c c t t g g c c t c c c a a a g t c c t g g g a t t a c a g g t a t g a g c t a c c g c a c c c a g t c 300
t a c c c t c a t c a t c t a g a t t c a a c t t a g t t t g c a t g a t t a t g g a g c a t g t a t t t a g a c t c c 360
a g t a t c a g a t t a g g g a t g a c g a c g g a t g g g g t g t t a a a a c a a g t t a t t t a a c a g a t t c c t 420
a a a t t t a a a a g g t t t a t a t a a c c a c a t t c t a a c a g t a t a c a t a a a c a c t a c a a a a a g g a 480
c a a a g t a t t t t g g g g g a a c c a g a t c c t t t a a a c a t c t g g a t t c t g g t a a t a t a a a t c t g a 540
n t a a g c a g c t g a t t t t a g a t t a c a a t t c a a t t g a a a t t t t t g n c g a a 587

<210> 6205

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6205

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t t a g a a a g t t a g t c c t t t t t t t a a a t a a g g a a a g g a a t g t g a g c t g g t a t t g a t a a c g c c 120
t g g t a t t g t g c g t g t c t g g g c a t t t a a c a a a g g c a a a a a g g a a a a g a g a g a g a g a g a g g 180

aaaaaggtgg ggggtactat caattaaaga ataaaagatt gatcgggtta tttgaagaga 240
 aacctcatca tatccacac caaccgtct ccccttcctg gcagttaaaa gcctgggtgg 300
 tgaggcaagc ctgtctggat tcaaacggca gtgacgtctt gggcacgttc tgctctctga 360
 acctctctgg ggtgttcagg gctgcggtga agaaccgag tccagagtca gatgctgcc 420
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 tctctgggcc tcaattctc atctgtaaga cnggctatta ccacacctc ctcttgatta 540
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<210> 6206

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6206

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 ctactggtgt gcgccaccac gccctgctaa tttttgtatt tttagtagag acggggtttt 180
 gccatgctgg ccaggctggt ctcaaactcc tgacctcagg tgatccactc acctcagcct 240
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 tnccggccac taaggggaga acattacca ccagtcagg ccaggacccc cttaacttca 480
 caccagtcc ccaaaaagcg tgtccagaac atgaggacna aattcatnac cnggaaccgg 540
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<210> 6207

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6207

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tgtgcaagtc agtgggtagc ttgtggattc tcactctgga acgatcccat gtctctgaac 180
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cttgttcgga acagcgatga gtgaggagca ggaatggcag actgcaactc tgcaccactt 480
atgactgcat ctttctcaaa gagctgnatt gcttctttt ggttggtggt ttttttgaga 540
cagaaattca ctcttggtgn ccagcttga ntgcaatggc n 581

<210> 6208

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6208

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caaatggggt taaattaatc agcacaagct atcatatgta tgtctgccct gcagtatata 180
tgaattttta tcctggttat gaagaaaaaa atggtgcttt attatttggc actataggat 240
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gtcmetaagt acgtgtatga tacttgact tcataattgg cttactaaa atataaaata 420
cacaagtgat cttactatga ttgmetaaa aggtagtga ctncagaagt ttaagctgt 480
gagtaggaat ttttaaatcc attttatggt aagttggtat agaagtgagc cagaatggat 540
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<210> 6209

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6209

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tacaaatgcc cgccactgcg ccagctact ttttgtatit ttagtagaga cagggtttca  180
ctgtgttggc caggctggtc ttgaactcct gacctcatga tccaccacc tcggcctccc  240
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acaatactgn attttttcac agatctcttc atccgcttaa ttttcttccc taagatttgg  480
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<210> 6210

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6210

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agccttgcac tcanaaagac cccgggggtc ttgtagtacc acgtgcttca tgtttcgnng  180
tatctgtcan agccttaaaa caggcccacc cactactgng aaatttcaag gaaataactg  240
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 tctgctaaaa acatntccac ccaacccttc tgccaacgag gtcaagctgg caaggcatnt 480
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<210> 6211

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6211

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 cccaatagtt atttgttctg atcctagttt ctaggaccc gatttctagt ttgtgaaga 180
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<210> 6212

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6212

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 tctgggctcc aggttaaaaa ttcctatgtt aagggaagaa ctagtcactt tataaagggt 180
 aagggtgtaa aagtatatta agtttccctt gcacatgatg catcatgcag gaatttaaca 240
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 gtcctttagt gtaaaattaa ttatgactat gattttaaag cttcagggtt tttaaaaaac 420
 catgtttaaa taaaatatta ggtaagcaaa aggtgaagct tacaaggaag gtgtaggaat 480
 tacaagtgga ggcaaaagat catgttttagc cattctatgc caaaatttag aanataaggc 540
 tnattggccc aaaagccntt tttggttacc gggggcctgt a 581

<210> 6213

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6213

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 attactaaaa attcttttagt gcgggtccac catttgcagt tttgaattat gtgtctgaat 180
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 ccgcagaaga atgtccagca ccagtgccat gccacaatgg ggtgcacngg ttaaagacac 480
 agggacgctn tgatggctta atggcaancc tccaaccagc agcttcaagc anttntacgt 540
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<210> 6214

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6214

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cagcacagag atgcaggag ggcaatgggc tgggccgtgt atgtcataca attattttgg 180
aggacaatga tgggtaggat tgtgctttac ccaccatgtt ttttagtaac ataacttaga 240
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taacaccagg cagttcatgt catgtggcct ctccttcaaa agtgaatcac tgtggaccaa 360
gcaccagaaa catcgtccca aagattcatc ttgaagtcag aaaggagaag agctaagacc 420
tgcactctct ggagtagcag tgtgcagctt tcaaagtttg gaagatttta agtcaactaa 480
atgggatggt attatctaaa accatttaat ctttacaatg gggttcanaa actggatgaa 540
nggtttcana acnntcctgn ctntttg 567

<210> 6215

<211> 509

<212> DNA

<213> Homo sapiens

<400> 6215

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aggcacagga caccacgcct agctaatttt tttgtatatt tttgtagaga tgatggcttc 180
gccctgttgt ccaggccggt ctcaaactcc tgggctcaag taatcttccc tcctcagcct 240
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aagaaggcac acganttttg catctttttac agaccttnag gacaataaan ggacctctng 480
cnaangggaa ccactttttg cnaaaaggt 509

<210> 6216

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6216

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cgggtgataaa tccatatacat cgagctttac ttctgttgct tccactttct ctgcttttat 180
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agggattccc tatgagctta taagngacct tgggaatggg ctattgaaag ggatcccccc 540
aaattttcaa gcctnccatt caaaattaat ggggtggatca aaana 585

<210> 6217

<211> 525

<212> DNA

<213> Homo sapiens

<400> 6217

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gcagtgagct gagatcatgc catcgactc cagcctgggc aacagagtga ggctctgtct 180

taaaaaaaaa aaaaaaaaaa aaaaaaatca caatagcaaa gacttggaac caacccaaat 240
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 cagccataaa aaaggatgag ttcatgncct ttgcaggac atggataaag ctggaaacca 360
 tcattctcag caaactaaca caagaacaaa aaaccaaaca ccatatattc tcactcataa 420
 gtggacagtt gaacaatgag aacccatgga cacangggag gggaanatta cacactgggg 480
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<210> 6218

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6218

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 ccctggagct agggatgttc ttccaaagga aaatgaatca cagctgcaat ctcacaaaaat 180
 gccttgatcc cacacagctg cctctctctc cctcctgggg accaagaagg aaacaagggc 240
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 ttaggcaatc cagtggatcat actctgtgca cagcctcctt cccatatcat gttttggaaa 480
 cacccttttg gngcattcga actctgaatg aggagcacct tacaccctg ntgntggaaa 540
 ancngactta aatggataaa ggcactggan cttacattn tg 582

<210> 6219

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6219

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 actgtgagaa ataaattcct ataatttata aattaccag tctcaggtat tttgttacag 180
 caccacaaac agacttagac actgtatgat tccattactg gaactctaga aaagcaattc 240
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 gaacaggcat tcacagctca gtgacttccc tttattctgt tgggaaagag ctgcttgaaa 420
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 ggangcctgc tccagcccag catttctgt gacagatcag ccgaatatgc ctaatctggc 540
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<210> 6220

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6220

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 aaaaaacttt gaaaaaaatc aagtaanggc tttgnaaagc ttttacacgt atnttaacct 540
 tnaaccaac naggggattt aaaatccggg gag 573

<210> 6221

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6221

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aggtagttaa acaaagcaca aaccttctgc atatgggtac gactatcaaa gctctgcaac 480
gaatacagng tttgtcaatg ctggcccaac tggtagtctt ggatatggac ttaacaagca 540
gaccnaaatg aactgcaang cnatcactaa aaatta 576
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<210> 6222

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6222

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tcaagggtc ctggatgctc acagcaaggA tgagttcatt tcaaattccat ggtactgaag 240
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 attgcatatt tcagggactc tggcatacag gacaaggctt cgttcactt ntttancnag 540
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<210> 6223

<211> 504

<212> DNA

<213> Homo sapiens

<400> 6223

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<210> 6224

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6224

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 aactttaagg ctgacncaaa aagactcctt ccagcatgca agtgggatgg tctttttgta 540
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<210> 6225

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6225

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<210> 6226

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6226

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<210> 6227

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6227

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579

<210> 6228

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6228

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 agtagcgttc tcacaatatt acacttgaaa ataccattta ggaacaatat tttaggaaat 180
 agagggttta aggcaagaca ttcatttgga aaagttaatt tctctctatc atccagattg 240
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 caacaaactc aaacccttga aaaggctctaa gatggttctg ttaacatcaa aaaaaaacag 540
 ccttanagct ttccgacact gtttagtgat gaagnctcan gntnttt 587

<210> 6229

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6229

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 tctctcttga ataaaccctc ttacttcccc ttttgcactc ctctctctaa atcctacatt 180
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tagttaattg aatcatcaac tactctaata cttctgcctg tcctgttttg ggttgaaagg 360
gacacaattc aaggtcaaag accatgtcag ttgcttcctt tgcatctca acactcagac 420
agcaccctct gtagacctga gtattgacaa aatgctcttc anaagagctt ntccagtcac 480
tctggaaaacg gccttcagag gcctccgaaa tagncctata attaataaat atttggcctt 540
gggggggttta acaagtggg 559

<210> 6230

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6230

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ttacaggtgc ctgccaccac tccaagataa tttttgtgtt tttaatagag acagggtttc 180
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agggaaagct tccaggagga aggagtagct tgtgtgaagg ttctgaggtc agaaaagtag 420
ttttgcaaaa taaaggaact gaaaaagaga tcaggtagag agacagaaag gcnctanaga 480
gaagcacata aggtggcana naangagaag cagttcttcc taagatatct atcaagngcc 540
tatttttaac agggctagca ttnttgatga gactgtt 577

<210> 6231

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6231

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 aagttactaa actgcctgag tccaagtgtt ctcatctata aaaagggtga gcaataatat 480
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<210> 6232

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6232

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 aagtaggtat tattatcaat ctcatTTTaca gctganaaac tgaagcaaat cacttcaact 180
 aaggcaatgn ggtctcagga tgtgtgctct ctgttactca naaacaaaag gtacactttt 240
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<210> 6233

<211> 597

<212> DNA

<213> Homo sapiens

<400> 6233

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gcccacatca aagacttcat gttcttatga ctctagaaac aggccagccc cggctgctgg  180
gctcttgga tcatggagtg tagctacaca taaagaagct cccttgtcaa ggacatgaca  240
tcatgtttta catcttggtc cttttcctgc cacctgtctt cccagaagg cctctgcaac  300
cggttttttg tcagctcaag ttgtagacca tcaaacctgt gcttaaacca gcgatgagct  360
tcttcagat tagctgttat ctgttctgat tccacactgg cttctttcag cgtattctct  420
gntgcctctt tacatttctt cagggtgtctg acagtttctt ccaattcctg gcaccgattc  480
tctacttctg ncttattttc cgtctgcttc taagggtgcca gctcttgctg gttattccga  540
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<210> 6234

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6234

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aggcatgcac caccacgctt ggctgatttt tgtactttta gtagagacag ggtttcacca  180
tgttggccag gctggctctg agctcctgac ctcaagtgat ccacctgctt tggcctccca  240
aatgctggg attacaggca tgagccacca tacctggcct cttttttttt tttttttttg  300
agatagaatt tcaactctgc acccaggctg gagtgtagtg gcatgatctc agctcactgc  360

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aacctccacc tgccagggtc aagagattct ccttcctcag cttctcaagt agctgggact 420
 acagttgtgc aagtaccatg cctgggtaat ttttgnattc ttgagtagag ataggatttt 480
 gccatgttgc ccacctggct tgaactctga cttangcaac canccacnta gcttccaaag 540
 gctggataca gctgaccatg gatctttaac atgccaaagn tnt 583

<210> 6235

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6235

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 tcagctcaca atattacccc tttccagaca acagcacatt caaatgttca agaaaacatt 180
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 caaggaactt acaatgtagc tggagagaca caaaacatcc aaaacagaca tgaggggctg 300
 gctctacctc cacacctcta tctgaacaaa aacgattact ggcttaagtc ctcgtgttgt 360
 aacgcatgag ccacaggaat atcttagcaa gtacgcactt tatcaagttt caatttgcatt 420
 gtcaaaaacaa aagttttttat gttggtcatt tatatttigna ttcactcaga tttccctcaa 480
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 tgaaaggata cttgggtcatg nccaaaaatt ttcccaggctc cncattt 587

<210> 6236

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6236

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cattatgac tgggctcctt agagtacaaa cctcaccagg cttagcatc atccataaga 120
aatggtggat tacttaatga cttataagta aaacagtcac taaatgatcc ttccatactt 180
taatcctctt atgcagagac tgagatactt ccatacattc caatatctgc aactttgggt 240
ctattaaagt atttgataaa agcaaaaaca ttttgtgacc acagaactct atggaacttt 300
tttccctttt aaagtgtcag gtgaacctag cgtgataagg caatgttgcc tacatatccg 360
cgaccagca caggaggagc agcacagaca gggcatgttc cagctcacca ttgntgnata 420
atactgctcc caccaggggt aacactgntt atgttccctg gaccctacat ctattcgtac 480
ctgaaacata atttgnataa aatatgatgg ttcttttagaa atatnttagt tttttaataa 540
actggcnnat gaaaaaangg nttcnaattg ggaa 574

<210> 6237

<211> 165

<212> DNA

<213> Homo sapiens

<400> 6237

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caagttcctg cctcagcctc ccgcgtagct gggatcacag gcatgtgcca ccacgcccg 120
ccaattttgt atttttagca gagacngngt tnnncangc tganc 165

<210> 6238

<211> 597

<212> DNA

<213> Homo sapiens

<400> 6238

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caaatgttcc aatagaagca aaatatcttt ttaatattta acaagttatc acagatagct 120
aaaaacatag atgcaaatga aattccccca gagaacaaac tgaaaatatc tggatatcagt 180

gctctgaaat cccaactatg aaagccatat acacaaaaat gtaaccctta tatcattgca 240
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 ggtactatac ttaaaacatt aagtaaaaga agtgaatgaa actcatttaa aggttgncaa 420
 aaaattagca actacttgga gcttatcaat taaaanggaa ccangntagc ngaccccntc 480
 ntagatccaa agaaatttga tccaggtcac tggaatcagc tgnaactctc aaggcccatg 540
 acttaatgcc ggagttttta cgggccccna agttgattcc aggccacttt tnaaagg 597

<210> 6239

<211> 599

<212> DNA

<213> Homo sapiens

<400> 6239

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 taacaatttg tcccactttt tatactcatt ctgcttatta gtttaaaact gactgggtcac 180
 agactgattt tgggaaccag ctggcaaaat cacaacttca ttttggtaat gaataactat 240
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 ggaaaaactg tttcacttgc ttggatgatcc acagagcacc cacaaagtta gctttttaa 420
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 aatgggttaa aaaatntaaa cttattggac ctaatctatc agaattgggt tggttggtta 540
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<210> 6240

<211> 609

<212> DNA

<213> Homo sapiens

<400> 6240

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 atctttttat ttttatttta tttttttgtg gaggcagaat cttgctatgt tgctcaggct 180
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 agatccagca gcacacacct tgggtgctca agaaatatgc gttaatttga atttcaaacc 420
 ctatcacaat agctgctaca gtttactgac gggctactct ggctggggcc ctggacanga 480
 atgggcctct tactccatta atccttaacc cttaccttat gangnangna gtataatgcc 540
 attttacaga agganggaac tgcttaaaaa ctggtanggg cattgcccaa ggtacactgg 600
 ttgtnaaag 609

<210> 6241

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6241

agaaaaattc cactttaatt aaactgttca atctggattt tttcccccg atactaactg 60
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 tttaaaaatt attttacagc aggaatttac atataaatac actctgtaca atgcgttaac 180
 tgaacaatca ctgggcttcc atcatggagg agaaatgatt ctaggacgag ccagggcagc 240
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 ttgaggacct caagggttg acgagcattg ggcanaaacg gaggaaccnc ggccgacttt 540

ctnttnacna tcngatcttt ngatcggaag gag

573

<210> 6242

<211> 442

<212> DNA

<213> Homo sapiens

<400> 6242

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 tccctcttgg tgaccccccc atctggagtt aaggctccaa gcagcaagtg acagaggagg 120
 gtgcctggct ccagcagcct gggcatggcg gcgactcccc caaaaacacc ccagctgggt 180
 ggggtgcctgg gggcctaggt gaggctgggtg ttggagctgc tggtagcact gcctcgcttt 240
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 cataccgtga aagcaggcag cagcggctgt gtgaacctgg tcttgaaagt gtgcagcact 360
 tgtttgggtgc gggcattgta gaaggacagg aggccttggn ggangtacag ngcacacca 420
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<210> 6243

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6243

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 ttcaggatc agagacttag tgctttaagt agcaaattac ctaaattatg aacacatatt 180
 tccaaaaaca aaatcaagct cataattacc aagtatatat gtacagtgca gattaataaa 240
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ataaaggctt aaatTTTTgt gagactaacc cataaaaaag gactccaatt ttaaaccaat 420
ccctgaaacc aaagcattca aatatttgaa tattagttca atatttctac atagcacgat 480
aaggattttc aggtacttca agttttggct ttatTTTTaa taatgggaat gggctacaat 540
taccattaac aattattcaa gtatTTTang ggccttacat atcattacc 589

<210> 6244

<211> 596

<212> DNA

<213> Homo sapiens

<400> 6244

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taaacaaatt catactggag atatatgtca gaaaacattc agcctgagta aactgaacgc 120
tctgtacaga aaacaacaga acaaaacaga acttcaacag taacactggc gtggcataat 180
ataagccacg caaaatgctt ccaaattccat tatctcttct gagtttcatc ttgtgaggtt 240
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taaagcataa atcacaatat atatTTTTaa agggttccca agtcttttct acttcataca 540
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<210> 6245

<211> 511

<212> DNA

<213> Homo sapiens

<400> 6245

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ntnactgcaa gctccgnttc ccgggttcac gccattctcc tgcctnagcc tcccagagtag 120
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 naattttgag caggccccgg gacttggttt tnaangnaac attggataaa tangctggtt 480
 caagttttat gcncaggctt taanaggcct a 511

<210> 6246

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6246

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 ttagtcctgc acagngttct anaaagggtt tttcttttca naatatccat attctccaag 120
 tagcaagtta gaatataagg aatatttgcc attaaacctt tctgttanaa atgtaaacad 180
 gaaattgcct aatatagacc tatctcanat gctaaataga attgnttata acacctttgg 240
 aatataatta tngagactac acttaacctt ctggcatttt gcttcctgcg gacaatttgc 300
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 gtttagagag taatagcatt ttattctaac ttttaaaata aggnagccat ttgcagcagc 420
 ttgatataata agtaaacaaa aatttttaat attaatataa cactagcaca tncnctgaag 480
 catctaagaa attcaaaatt tnaaacnctt nccagtaatg ncctttgagn gggaccattt 540
 ggaataaagg cccttgaaaa attgga 566

<210> 6247

<211> 527

<212> DNA

<213> Homo sapiens

<400> 6247

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ggacaaatgt ccatggcana nccttccaaa aaactcgccc nttaccctgn ggggcaaaaa  180
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gagggggatg ctgctcctgc ctggggcctg cctttattnt gagggcccct ggccccaant  420
gggtttaana agggacctng ggcttgccca agaaccttga aanccctggg ttggccantt  480
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<210> 6248

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6248

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acaacttgca atatcaacaa tgcatttggc ccaggaactg ctaatgaacg tacagtgcag  180
tggtggttca agaagttttg caaaagatac cagagccttg aggatgagga gtgtagtggc  240
aggccactgg aagttgacaa caaccaattg agagcaatca ttgaagcaga ttgatcctct  300
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accagctgag ccaaaattta aaaaaacccc ggttttgnaa tgggtggcntc tcttaatctt  480
cacaaccacc gaaccttnt taatcggact gtgaagggca ncaaggacta gattttatnt  540
gacangca                                           548

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<210> 6249

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6249

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cagagttgga aagcatttta ctgaaagcaa aatatttaga gaaaatagac atttatacaa  180
aattataaaa tgcttgtaat aagaataagt gcatttcaag gaaagcacia acttaattta  240
tagagccagt taaagcttta aaaaatttaa gtggaaattg aaatatgcaa aaatgtataa  300
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gacaaaagga aggtagaagc ttgggaactc tttctcaagg gcattttctt tctacacact  420
gnttccttc ttcttcatat tcttgcttgg naatcncatt tgggtgaaag gtncccaaga  480
ggctanaatg ganccgccaa tccttgagct aacctccgtc cctgtggatt attgcaatca  540
atttn                                           545

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<210> 6250

<211> 542

<212> DNA

<213> Homo sapiens

<400> 6250

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gccatgacat ntagaagcat ttattttatg caaaaaactt aaatatgatt atngntacnc   60
ataaangca cacattacct atgctgaaca atgccaagaa acataatata ttgatgcaac  120
agttttctaa aataaacata aaaatgagcc cagaccatca gacaaaagca aaacacttat  180
ttccaaatag cacaatgctg aaaattgata gcaatcctaa aacacctcca actttcctta  240
aaagctgcca aagtccaact attttttaaa aattgatttt ttttacatta ataaaaatct  300

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ggngacaaac attataaaac caaatgctgg acagtcttta ctcctttaaa attccaaata 360
 ttccaacata atcacaggag taaaaacat tttaaagnga tatgctttat gaaacaaacn 420
 acaatatgga cntttattgn aaattatntt aaactaaaat gggggggaat ccaaanttgg 480
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 gg 542

<210> 6251

<211> 493

<212> DNA

<213> Homo sapiens

<400> 6251

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 nagttccagt gtatTTTTca cctttagttt cttggctcct ctccgcctct acaccagcct 180
 catatccaca cgggatgctc tctgctgagt attgtcttga gttagtctc cctctcatgt 240
 tctggctgat gctactcatg gtcatagtat cacctgacgg ggaaggagta tgctatgaag 300
 gtgaaaaatg ctaccatagc attttgtttg tttataaaat gtcaggccct ggttccattt 360
 ttccccctc ttatatctaa attttgaaac cactggcctn taacaagtct gtantaggct 420
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 tttgctaaaa aaa 493

<210> 6252

<211> 535

<212> DNA

<213> Homo sapiens

<400> 6252

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 acaggagtgc gccacatgc ccagctaatt tttgtatatt ttttttttag tagagacagg 180
 gtttcacat gctggccagg atggtcttga tatcttgacc ttgtgatctg cccgccttgg 240
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 cgcccaggct ggagtgcagt ggcgcaatct cggctcactg naaccttcac cttctgggtt 420
 caagcgattc ttctggctta nccttctgag taactnggaa tgcagccttc gccacangcc 480
 ccgntgattt tggatggta agnaaaaang gggtttacca tgttggcagg ctgn 535

<210> 6253

<211> 503

<212> DNA

<213> Homo sapiens

<400> 6253

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 ctcacctctc tctgcttgc cagccttctg agtctccaat gtacattata ccactctgta 180
 tgcccttgca tatccataag cttagaaacc acctgtaaat gagaacatgt tggatttaga 240
 ttttgattcc agaattactt cacttaggat aatagcctcc agttccatcc cagttgctgc 300
 aaaagacatt atttcattct tttttatggc tgagtagtat tctacaatat acatatgcca 360
 cattttcttt atctactctt tggttgatgg gtatttaggt tgattccgta tcattacaat 420
 tgngaactgn gctgngaaaa atatggcttt tttaaaaaat gggnttcctt ttcattnggg 480
 aanaacctca ntaggggaat tca 503

<210> 6254

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6254

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 acagtcagcc caatgctgtc tccgttccat gggccagcac aggcaggcgc cactctgctg 180
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 cagcccttac ggggaattcc ttttaattccc ccaggccagg tgagtgtga ctcagtgatg 300
 acaacagctg tagaagtagg ggtttggtt ctggcccaga tccacgccct tgtcctctgt 360
 catcacctgg aaggcagcca cactgacgta atcctctgcc actttctgga agagctcgtc 420
 cacactntgg cctgncttgc tggatggtt aaagagctga actttgatat ctgnnaagaa 480
 gaatggctta aggcctatac cctggnaatt ggtaaccgg ncaaaaggga nggctancag 540
 ttaagga 547

<210> 6255

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6255

gttttttgag acagaatctt gttctgttgc ccaggctgga gtgcagtagt gtgatcttgg 60
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 gctgggatta caggtaccca ccaccatgcc tggctaattt ttgtattgtt tgtagagagg 180
 ggggtttcac catgttggtc aggcctggtc tgaactcctg atctcaagt atctgccctc 240
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 ctttttatgt ggtttaagtt ccttcacat ctgactggcc acacacatgg gcagagcttg 360
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 agcccagctn tactaccagc tntgnnctta tnggcaggtc acaaacctt ttttaacttg 480
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 n 541

<210> 6256

<211> 470

<212> DNA

<213> Homo sapiens

<400> 6256

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ggagacagag tctagctctg tcacccaggc tggaatgcaa tcagtgacat gatcttggtt   60
cactgcaatc gcgccactgc actgcagcct aggggacaga gagcaagact ccactcctaaa  120
aaacaaaaac aaaaacaaaa acaaaccaga attggctttg ttattttctt aaccctagac  180
agaataggtg gtcaaaggaa aaggaggagg agataccaga taggtttgca aatatggtaa  240
agttcattat tacccaactg ctccctttgaa atctaaaagc gttctttttt ctccaggctg  300
acactggcca catccacatg aagaatgtaa gcacatcaat cagtacagat gccagctgag  360
ccctgtttct ctttttttaa ccaaatataa aatttgaagt cctnccacaa ccatntgaat  420
gggcctnccc tttngncaag gnacttttaa aattaaacnt gaaagggttg   470
    
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<210> 6257

<211> 429

<212> DNA

<213> Homo sapiens

<400> 6257

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gtaagaaata aatttatatt tttaaataat caccatattt caggtattct gttgtaagta   60
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tttcaaaaca ttgtcctgaa catataccaa ggtagatcgc attctgggcc ataaaacata  180
ccttaataag tttaaataaa tagaaatcat acaatgtatg ccctcaggcc gcagtgggaat  240
taaactagaa accgatgaca gaaaaagagc tgaaaaatcc caaaatattt ggatagtcaa  300
caatacattt ctaaataata catagggtcaa agaacaaata tcgagagaaa taaaaaagaa  360
tattttaagc taaataaaac tgaaaatact acctatcaaa atctgggana tgccncaaaa  420
    
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ggtagnnnn

429

<210> 6258

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6258

aaatTTTTTc atctcaaaga gttctcagtc cccaccccac acgaggtacc gtgaaggggc 60
actaaagtac attttgatgt agggggtaga gcttaaaggt gctgtccaag ctaagaatca 120
agatgatgct gtttaaaaaa gaaaggcaat tccttctacc tccatctctg gagtcagctg 180
agggagggca gtgaactaga ctctccccag aggattgtcc taactcttaa ctttagagaa 240
aactgtgtaa ggacctgcac atatagaatc atttatttgt ccaaaatagc aaaaataggc 300
ctatttcacc cttagaatt tgcaaactg atcagtcatg atcataaaaa tgtgaatgga 360
ttccagatgc aatccatgtg ggcatgctct gtggaactag ctatgcatct tcagcttgaa 420
tgaacatgaa gctggtcatt ttcattaaaa cctgnntttt aaacttncct taattaaatt 480
ccccntggan canttaaate ttttcttaca ataattcctt tacattaaaa ggtatct 537

<210> 6259

<211> 532

<212> DNA

<213> Homo sapiens

<400> 6259

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ctcctgagta gctgggacta caggcgccca ccaccacacc tggctaattt tttgtatttt 180
tagcagagaa ggggtttcac tgcattagcc aggatgatct cgatctcctg acctcaagtg 240
atccgcccgc ctcggcctcc caaagtgctg ggattacagg cgtgagccac cgcgcccggc 300

caatttctaa ggctccatta gggctaaggt tcatgtatcc atggtgaagt atagaagaac 360
tcagaatcgt tccaaacata atgggcttgg agtaatggag aactccaagg gcaggaggta 420
accattaaag aggccntnat ggaaangga aggagcaaca ttncactaa aagccttgg 480
tnaagtttgg ctttgcctt acagattitg aaccctgagn aagtacttac ct 532

<210> 6260

<211> 524

<212> DNA

<213> Homo sapiens

<400> 6260

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tcaaactcct gatctcagat gatccgcacg cctccacctc ccaaagtgtt gggattacag 120
gcgtgagcca ccatgctcgg cctaggtgac ttttcatggg gagataacac acaggcatgg 180
tgagcagcgt ggcanaggac ctgtgtgcag ggccctgtct cccgccgggg aatccttcat 240
ctgggaaatc tccgntgcgg gacagggatg ctgtgtcgtc aggacgcagc gtcctntccag 300
ggcaccggg cctcctciga gcctctttgc gctctttggc tgcgtgcttt ctttcccaaa 360
cagtgcagac atggaggaga cagaaggtga aaatggtttc tgagcccctc aaccgccttt 420
ggggacacca acctngnggt nttaaaacc aagccttctt tgaanccgga aaaggaggag 480
caccgggtn ttggcccaa nggaccacc tgaatcaca agcg 524

<210> 6261

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6261

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ggttttctaa caccacctac ttggggagat ggggaagtgg gactgtgccg ctcaccatca 120

gctagaacat tagtggtcag cagggacttg gatacatacc aactgactgt cccaacagga 180
 actcagtctc aacagtctac agaggacag tcagggtacc ctggactgct ggcacagctt 240
 ggcacatagg aaatggttaa gctgaccctt tcctggcctc ctcccatct aaaaagaaaa 300
 aggcgccggc gacctcagct gcaggttgct tcccatcca gacgacctta aatatcgcg 360
 acaaaaataa aaggagacca ggaaaaaat naaaacataa aagaaattcc cattctgggg 420
 aaaccggaag caaggtnaaa ggggaacccg cagaatttan anccagtanc aanatttggt 480
 gctgaggcna aggancaaag taggttactg gccgaacact taacaggatc atctcctggg 540
 gaagg 545

<210> 6262

<211> 510

<212> DNA

<213> Homo sapiens

<400> 6262

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 taaatccact ttttaaaaaa atttcctaag aggtttggta ctttaatttt ctgttttaca 180
 cacataactg gaacttgtaa atgggcaact gccttcctat atgtggaatt atagtttttt 240
 cttgtccttt cccccaacc acatatatta aatcatggga cattatatat caaccctcac 300
 ctaggctttg gggtattcta taaggaaaag cttttgtcag agtttggtg tctccttcct 360
 ttcccatgcc cacaaaagat gtgtgactaa gtggacaaag aactcagcac tgggcctgnt 420
 taagactntg gccntattct caaaaaaatt ttgangggag gttcctctaa anactttata 480
 actttgccct ttngagaanc atgttttaaa 510

<210> 6263

<211> 515

<212> DNA

<213> Homo sapiens

<400> 6263

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aacctctgcc tcccaggttc aagcgattat cctgcctcag cctcctgagc agctgggact 120
acaaatgtgc accaccacat ctggctaatt tttttttttt ttttttttgt attttttagta 180
gagacggggt ttcaccaagt tggcctggct ggtctcgaac acctgacctc aattgatcca 240
cctgcctcgg cctcccaaag tattataggc atgagccact gagcccggcc ttttttgttt 300
tttgtttttt taaaggcagg gttttgctct gttgcccagg ctggagtgca gtggtgtgat 360
cacagatcac tgcagccttg acctctcctg gtctcaagcg atcctnccac cttagccttn 420
anaacagctg ggaccncagg ngggtgg nac catgcccagg aaattttttt ggatatttgg 480
aaaaggcagg gtttcccaan gttgccnggg ctggg 515

<210> 6264

<211> 460

<212> DNA

<213> Homo sapiens

<400> 6264

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caagctccgc cccccggatt catgccattc ttctgcctca gcctcctgag tagctgggac 120
tacaggcacc caccaccaca cccggttagt ttttttgtat ttttttagta gagacggggt 180
ttcacagtgt tcaccaggat ggtctcgatc tcctgacccc gtgatctgcc tgccttggcc 240
tccgaagtgc tgggattaca ggcgtgagcc accgcacctg gccaagacca atttttaaaa 300
tttaagacac ttcaaagatg caaaataatt tcagaactga ttcttgaaa cttgtaattt 360
taatattaaa gatagtcttg tttgtatctt tccatggata actaaaaatn acacaaaatg 420
gaaacagaaa tgcccattct tgnnttaacn nnggaacnnt 460

<210> 6265

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6265

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atcatgaatc aggccaggca ctgtggctca cgcctgtagt cccaatactt tgggaggcca   120
aggcaagagg atcacttgag ctcacgggag ttcaaccagc ctgggcaaca aagtgagata   180
cccacctcca caaaaaattt aaaaaactag ccaggcacag tgatgtgtgc ctgcggtccc   240
agctacttgg gaggctgacg caggagaacc gctcgagccc aggaattcaa ggctgcagtg   300
agctttgatt gtgccactgc actccagcct gggagacaga gcaagatcct gtctcacaaa   360
aaaaaagaaa aaaagaaaga aaaagaaaag tagtgaatca tgcaataagt tgtttaatga   420
acatgcccct gncagccaca gacttcacaa gggccaggga attgnnttgn ttttcccaan   480
tttgggcttg gttnangaat tggaacntcc agacttttgt tgcataatgg agcaaatcaa   540
tcttcc                                                                    546

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<210> 6266

<211> 368

<212> DNA

<213> Homo sapiens

<400> 6266

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agntcttcc tttttttcc ttttttttc ttctcttct teettctttt ctttggcttg   60
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ttttttcttt nctttttcc ttttttcta ttggttcttt tttcttcttt ctteettctt   180
ctctctttc ttctcttct teetcttten cttcttttc ttctnccttc teettggtct   240
ccttcttcc tatttttct ttttctctt cttectcttc ctteettctt ttttttcc   300
tntcttctc ttctttctc ttntcttten ancttcttgn ctctnctct tctctcttc   360
tcctaggg                                                                    368

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<210> 6267

<211> 455

<212> DNA

<213> Homo sapiens

<400> 6267

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ggagaaattg taaacctgat tctaaactgt atatagaaac tcaaaagaac tagaatagcc 60
aaagcaaact tcggaggaaa acaaagaaaa tgttgtgtga cttataattt atgacttcaa 120
gaactccaaa gcaagagaaa atgttagtcg cataaaaaatc tatgaataca tcaaagaaac 180
agaaaataga gccaaaatag attaaattta aatagtcatt tgatttattt ttttttacat 240
aagtgccaat gcaatctctt gagaaacaga aagtctatcc cacaaatggt gctggaacac 300
attgatatcc acttggaanaa aaaaaaaaaa gaactttgac acctatctta caccatatac 360
acaattaatt tagaaagaat cgtagtccta aaaataaaaaa tggaaacat naagcatntn 420
aaagcnaacn ggngaattag aggggaacnt ttttt                                     455
    
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<210> 6268

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6268

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aacattgtca cacatcagtt tattgagaaa atcatgatgc tatatgttaa ttctcttcaa 60
gtgattactt ttcattatgt cagatgagac tccaaaaggc catagccatg aagtttagaca 120
ctttcccata ttttgttcag gaacacaaaa accaaatgca aagaaatggt taagagaaca 180
tgaaattggc ctcttccttc cccaaccaa aggtagtcatt taacagtcag gaaggacaaa 240
ctgaaacatg taaaagcaa atatTTTTgc tagattttat tttcaaagtt tcaaaccttt 300
ccaatttttt ttttattttt taccacaaaa aaggtatcaa tacttttcat tccactcttg 360
tcaacttttag ccaaagcctt ctgagctgca gtcattttgc tatttttctt ttcagtcttc 420
aaatcttttag tattaaactt agtghtaatct tctttgnttc tacaggctca tctgataact 480
    
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ttattttctt tgatggagga tttggcaatg angcttaang gtctggaagc ttaagtttta 540
aataagcatc cctaaatctt tngggng 567

<210> 6269

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6269

ggcacttgct caatctcttt atttagtggc acacatggaa tgaatgaatt agctcttact 60
tgcggcatac ttaacaagtc tgatcttgct tatagaaatt ggatcttaat acttcattct 120
cagaatactt caaaacgtaa gccacagttt ttctttcaag gatgtgggaa gcattcctca 180
ttcaaatctg attaatggtt ttataaagta tgtacctcat ttttattagc cattatcttc 240
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gtgtttttgc ttgaagattt agtgaacgtt caaggaatca caatttttga gctttacatc 480
cagagtctat actatgtgaa aatactacag ngcctcattt aaaaagcncc gtgattaaat 540
tncaaatcca aatgccaaaa tcaata 566

<210> 6270

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6270

catctttgcc ttttaatata anattnggtt tcatcatttc tgagnngtaac atatttnttn 60
taaaaataga gctctctgct tgtctgaaac ttnttagcgt tcaactgggag gtgaagggga 120
ataaggctga ccgtaattct ggggtgacgt tgccagtttc atagtcatag ataaacttct 180

nangggctcc tggatgctca cagcanggat gagttcattt caaatccatg gtactgaana 240
 agcatgacaa agcgtttcan ggcccatnt gtgcctgggtg tggactcctg aacgcattac 300
 tgaccaaagg caatcaatca cagcgccgac cccggcgggg ccgatccgag ggcctnacta 360
 aaccatccaa tcggtagtan cgacgggcgg tgtgtacaaa gggcaggac ttaatcaacg 420
 caagcttatg accgcactt actgggaatt cctcgttcat ggggaataat tgcaatcccc 480
 gatcccatcc gaatgggggt caacnggta cccgggctgc cggctaaggt angccacctt 540
 accnactnat g 551

<210> 6271

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6271

aagtgttcgg tttttctttt aattatttac cagataaaaa agaaaaaat agtgattgtt 60
 tctcttcacc cccaacattt ccgtttacca aggtcgagtt ggagagaaat tcattgaaca 120
 acgatttgtg ctcttgccct ggagcaaatt cttctcctct gctctacgcc acctcaggca 180
 gcaggacag ggcaaagggc tccaggcaga aatcctgggtg gctgggcagc agagtggcag 240
 tgtggcgatc gcttcttctc gccattgcca gagcattcag accctttccc gtctgtcccc 300
 ctacccaag tccccagtc cctcaaagga ggcaggaggt ggggactgca ggaagcagga 360
 caggtgcacg ggtggcctgg gcagctcccc acagatctgg cagaggggac aaccctgct 420
 tctattgcac atcctggctc acccccctgc ccgagcagta ngccacaaaa tgaaacactt 480
 ttcaaantca gaaagcccgt gctttgtgcc agcttnanga ngggaagttn gttgntg 537

<210> 6272

<211> 512

<212> DNA

<213> Homo sapiens

<400> 6272

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 tcagaacaag ctcaaagacc ttcttgactt ctgcagggga ggggtgtcctc cctctcgtcc 180
 cctcacatgg ctttctatca ctcccttgct cctgcaagcc tgcctcatgg aaccctcaga 240
 ccaatctcca ttttgccaag gacgggtggg cccacctctg cctcttgag cagaccctgc 300
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 ggtgggctgg aaagtgtga gaaccaaca ttttcttaat nnnnttttct ttncnttgag 480
 acaagtttta ctttnttacc caggttgga ng 512

<210> 6273

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6273

caatttgccc tctacacttc ccaatttaga agaaactata actagtttct tgggtattta 60
 tatttgtcac taagtcactt taatgcatct tcaaatatgt gtaaaaaata gaactcttat 120
 accaccatca accagacagc atatattacc aattaaataa gtgccacta tttataaata 180
 gtgcatgttt agggatcaat aaaaacatat ctttacacgt aaggacatat cctaatttta 240
 tcataatata tccaaactgc aaaagcatgt gctgggctgt tctctaccga ataccataaa 300
 actgaatatt gttcaccact atggtcgac tttctaactt taaagagtac acaactgaac 360
 tcaattactc caaagatatg tgaaaacaca gaaaaatgac ccctgttaaa agagtaaacc 420
 tagcttttgn tttactttcc ttttatataa aaaaagatgt acagggttct cttctgangg 480
 ccagtagtca atttagaggg gatacttcng aagctttttt tgggtggtgg aattgggnac 540
 ctttacttcc caagggnccc ttntaccan 569

<210> 6274

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6274

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aaaccacaaa tacgtttatt cctctaaaaa cagtatacca tctttccaat tttcaaaatg   60
ttattatcaa ttgtctgcag attactctca ttaagctgat ttttaaaaat ctcagacaga  120
gcagagcaat tcaccagcac catcatcaag tgagctacaa atctatcttt taccagagca  180
aggagacact taagatcaat tcaagagaat agctttcagt gttcatagaa ggggtactca  240
cattcatttg tcacatattt caggccctca tacaccctt ttaaattgtc taactcctat  300
cccagtttct ttttatagtc taaaaacaag gaatcaccca agtaagatac tccttcagag  360
cactgctgaa aatggatcaa acgtgggaga tccccagat ccctgttctc aagtgttaaa  420
aatattttat attagcacat agaataccct tagaatatat tctggtatgg tctaaagaag  480
ttggggttcc ccttttgatg aggcttcaat tcttctgaga cctttcctgg atagncattt  540
ggtctattgn tttnacttct ctggnn                                     566
    
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<210> 6275

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6275

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cagatcagga agttttattg ctgacatgca ggaagagtcc ccatgtagta caaaaatatg   60
tctttataca aacttttttg tgactttttc cgtttcttta caataggact tctctcagaa  120
accggtccat cctcaggaat ggtatactcg gcagccttga tcttgcgga gagctcctgc  180
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gccacatgt cactgggctt gccacggtac ggccggccgc tgagcacgtc gggactgatg  300
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aggcaaaaat tggatgatgg tatccgatgg gcctcttggt gagcaccatg ttccccagct  420
    
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tcaggctctg tgcacgatat ttttctggtg caggccttca ccacgcggac cacgtntana 480
agattaccca ggnttccttt tgctgagcct ttntcttgat gactaatgct tcaggttgat 540
aaggcaacgg cttttc 556

<210> 6276

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6276

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tacaggtgcc caccactaca cccggctaata tttttgtatg tttagtagag acgggggttc 180
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gcctcttagt cagaatccta agaacataac caggaaacaa atgaggcaag caagatcctg 300
ctataaatca aagaactact agactcatga aataatttta aatgcgtgtt aaccatgagt 360
gaaaactaga aattgacagc cccaattttt ttttaagggc agatgggtact ttacatcttg 420
gtcttaggca taaaactatc tagnaacaaat gtctagggat cgagtcatta taaaagtcac 480
ttcatgcttn aagtatttcn aaacttggag cttttnaagg aattgggggtt cacttattag 540
acaccagtgg aatt 554

<210> 6277

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6277

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agcaaacgct aagtgaatgg gttcccgtgc cgagggtgtc ctcatctctg ggctctgtca 180
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 cttcttcctg cgggtgactg tcccatcgcc ctggatcca gactcgcact ctgagtcgga 420
 gtctgacgaa ctggagctgg aggagctgga agagtcgctg gagctgtcgg aagctatccc 480
 tngggacttc tgaangncaa cccaatcttg caaggctggc caattngggg ggctttgnnt 540
 taaaaancct taccat 556

<210> 6278

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6278

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 atgatatact cgcacctaataaatctggtct ccactaagga cttattgtaa ttaaaaagtt 180
 aaacaagtta gctgatggac aataaatctg ttttaaggag ggaagagaaa acaggccctt 240
 gtaaataatta gctcttaagt gccagctact ttatatgcaa tatcatttga aagatctcct 300
 accatactaa ataaagaatt ggaggccatt atccctatat tataattaaa ggtgggggag 360
 gggagaagat cctcacaaga attcacaag ctagatatta ttacccttcc tctctatttc 420
 tcaacagatg agaaaagtga ggccaaaaga agctaagcaa tttggtcaan gccatcatgc 480
 anctatgtag tgggggtgat ccgggtnaat ctactggctc ctggatncat gctttttggt 540
 ctgaaccctg ctggtg 556

<210> 6279

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6279

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 gctaattttt ttatttttat ttttttagag gcatggctctc gttatgttgc ccaagctggt 180
 ctcggaactcc tggcctcaag agatcctcct gtctcagcct cccgagtagc taggattaca 240
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 atattttcaa agttaaagga gcaaaatgtt tcccatgcag aagtagagat ggaaggagta 360
 actaccacca tggcacttag atgtgaccaa atttataata aacagagtgt gattataact 420
 aatctgcatt ttttaaattt acatatgaaa ttcaccaaaa aaaaaaaaaa gggaangcaa 480
 ngggcaaang angggcagca atttagataa tagggctctc taatccttc agtcttggaa 540
 natccgtac tctta 555

<210> 6280

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6280

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 ccctggccag attaagttaa tttcaattgt tttgcagtcg cttgtactac aaagtgctat 180
 aatgcagata tttgggacac ggtgtttaga gaacttcctg actacctgga tgtgagaagt 240
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 gatttgaaca tgggtatttt catttgtggt agaggacatt caaataaaga tgtctaggat 420
 gcaactagaa atatgaagtt aaacctgtta agaagatctg ggctggagat aactgatacc 480
 ggacttcacc agattgaaaa tggaggncct tgggaaccan catttagntn tcatnggacc 540

ttgtggaata aacttttga

559

<210> 6281

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6281

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 taatgatgaa gcatgaaccc aggctgagaa gtgtacaatt tgattttaac tactgccaaa 180
 acagttaaca agctctgtct tatccactga cagcaggaaa tgtctttacc ccactactcc 240
 tgagattcta aaaagggaaa actaatttca caaacaacct ttaaaagaat ccatagatga 300
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 tgattaaact aatagaacgc atatttacta acaaaagatg gttaacatta tcataaaacc 420
 atttatcttt ttaaacttct ctaattcctg ctaattttgc cagcttaaata taagaaatga 480
 atggcctntt ggcctaata actatngggt attaaaaact aagacatctg gaacttttag 540
 gcncatcaan gnaccgggtt atg 563

<210> 6282

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6282

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 aacagctgtg tgccaccatg cccagctaata gttttttgtt tgagacagtc tcgctctgtc 180
 aaccgggctg aagtgcagtg gcacaatctt ggctcactgc aacctctgcc tcccagggtc 240

aagcgattct cctgcctcag cctcccgagt agctgggact acggcatgtg ccactacgcc 300
 cagctaattt ttgtactttc aatagagatg gggtttcacc atgttggttg gcgagaatgg 360
 tctcaatctc ttcacctcac gatccgccgc ctcggcctcc caaagtgctg ggattacagg 420
 catgagccac cgtgcccggc tgctaatttt tgaaaatata tatttttagag acttttcttg 480
 gggctctcgt ttggtatgca aggnccagcn tnaacttctg gntttgaacg aancctccgc 540
 tgggcttcca a 551

<210> 6283

<211> 560

<212> DNA

<213> Homo sapiens

<400> 6283

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 aacctccgcc tcccaggttc aagggattct cccgcctcag cctcctgagt agctgggatt 120
 acaggcgtgc accaccaagc ccagttaatt ttgtatttt tagtagacat ggggtttcac 180
 tgtgttgcc aggatggtct tgatctcctg acttcatgat ccacccacct cggcctccca 240
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 atcagaactt ttggcataat ctatttcgct tcccaggaa aaggaatgta gcagatttta 360
 taacagagaa gagaaagtaa agtcaagtca agagtctaag gtatttccat attatcatca 420
 aagttgcccg ggagaagggt ggggggtcaaa agcttaagat tncaggttg atgacctggn 480
 tttggnatcc aagcacagtt cctcagtact tacctgacct taggtnggta cctaaacctt 540
 ttgagccttg gttccctnat 560

<210> 6284

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6284

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 tgacaactag attagggtag agaggacagt cttgaggtaa atgagcataa ataggcagtt 120
 cttatagaca ctccccctaag gggcctgagc cccatcacgg catatacatt atcacccaaa 180
 gatggcatgt tgaacatatc aggaaagcac cttgtgcaaa aaggaaaaaa aaaaagtagc 240
 taaggtgcca acatacacca ggatagataa agacagtng tctttcaatt ttgtcttttc 300
 ccttaattat gaggcanaagg aggggaagac ttgaaaagt nccactgaaa gattattcaa 360
 tgttgagctt tatctcacgt caatactgca caacaaaatc caagaagttt gtgtatgcaa 420
 caaagctaag aacaatgatt cattcctgna aatttgaaga agaatttttt tatttttccc 480
 atttctttaa tccttacaaa ctttttaata ttattatcaa gaggagagtg tganaaaatg 540
 tatggcacc ttaagggcnt tnaaaacntt ncctggacng 580

<210> 6285

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6285

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 agaatggggg aggacatttg gaaatcacat atctgataag ggactaatat ctaatatata 120
 taaaaactaa aacacaacaa caaaaaacaa cctattggat ttgaatagac atttcttcaa 180
 agatatacaa acttaaatgt tcattgatgg ataaagaaaa tatgtatata tacaatgaga 240
 tgttactcaa ccttaaaaag gaataaaatt ttgatacatg ctataacatg gatgaacctt 300
 gcgattatta tgctaactaa gccagacaca aaggacaaat atcctatgat tccatttctg 360
 tgaggtacct ggaacagtca aattcataga gatagaaagt aaaagtagtg gttaccagag 420
 gttgggagag aggggagaag agagagtgat tgntcaatgg gtatagaggt ttaagtttgg 480
 ggaagaagaa agtagttctg gnaaaaggta atgatgggtg cacaatcatg tgaatggnc 540
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<210> 6286

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6286

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agttgaaatt cgttaccagg tgaaaattct ggagctgggt tttgcactga ggatgctaca  180
cagccactag cctttttaat ttggtcttat taacagaaat actgacttag tgaaattaca  240
ggcataggcc tcttaatcgc tttttatgag tctgaacttt tgctttcaat accaaatagt  300
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atgtgatagt cattccttaa tccatagtca ccatgagcct caaggagtaa ctcttcaaaa  420
gaatgggaaa aggcgcaggt cctcaccatt tccttctgnc tccacgcttt cagcatgctt  480
acaggaaatg ngcttncnat tggggaccta aatgnngnc aaaacttctt acag       534

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<210> 6287

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6287

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gacagacca aacttttata tctttccagt tggctgtaca atttctgaac cttgtccttg  120
tagacacctg gtcaccggaa accatcatgt ctgtaaaact accacacagt ccagcctcca  180
tcctcaactg ccgcctctt cctctctgca ctggagccgg ccaggccacc tcctcccaa  240
ccgtggaaca ccatggtgac aggagatggc cctggccagg gggaggctgc tgggactgca  300
ccccatcct gaccagacct cctcctttg tcccctgcag agcctccaag gcaggtcac  360
ctgacactgc aaccacattt ggtggctgtg ggcaagtcct taccattgag tgcagggtgc  420

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ccaccgtgga gcccctggac agcctaccct ttttctggtc cgnggcaatg agactctgga 480
ctatgagacc tttnggaaag gcagcccctg ttcncagga aggencagcc ccattnaaca 540
agcacgggtt acaaaaagga tggccnccgg aacttttttt n 581

<210> 6288

<211> 561

<212> DNA

<213> Homo sapiens

<400> 6288

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ccgcctcccg ggttcaattg attctcctgc ctcagcctcc agagtagctg ggactacagg 120
cgcccgccac cacgcccggc taatTTTTTg tatttttagt agagacgggg tttcacctg 180
ttagccaaga tggctctggat ctctgacgt cgtgagccgc ccgcctcggc ctcccaaagt 240
gctgcgatta caggcgtgag ccaccgcgc cggccaataa atggtttcta attaaaggat 300
tgtgacattt aatagccgtt gcttgctctt gtcttgctcc ctctctctc gaaacttggt 360
aagaaataac tcaatattct ggcttgggta aagtaaatat aatgctattg gatattttgg 420
tcattgaat tgataagact tttcaagtaa aagttgcttt ttanggtagn atcttcatgg 480
ccttgagaaa gttgcttggc tctctttgga ccaanttggc actggcnttn ttaccggaca 540
aatttggngc tttanaattt a 561

<210> 6289

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6289

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caagctccgc ctcacaggtt catgccattc tcctgcctca gcatctgggg tagctgggac 120

tacaggcgcc agccaccatg cccagctaatt tttttgtatt ttttagtagag acagggattc 180
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 caaagtgtg ggattatagg catgagcctc cgtgcctggc ctcatatccc ttttaaaaat 300
 tactatgata tateccctttt aaaaagtact aactgaaaaa agtactatct ctttaaaaag 360
 tactggctca aaaaaataat agaaaataag aaacaaaaaa caggctgaga aaagtgggct 420
 cacatctgtt ggccatgtg gtttcaaact cctggacctc aagtgacat gggccttggg 480
 ctccgacntg ctnggaatac anggngaag cccaaaactg ggcccatcct ttttaacataa 540
 acncttgaag ggnaataaag gcttgac 567

<210> 6290

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6290

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 agtgctcgag gcattttcac agcaatcctg tattaatgcc catcgactgg ctttcttttg 180
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 gggcagtgga tgagtagatt gaatgggaaa tcctttaagc tggccaaaga ggtcactgtg 300
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 gaccatcca ctgcatagaa ggcgcagccc tgcttgactt ttttcaaagc tggctggact 420
 tacatggatg tcagacctgc agtgagccag atttgctttc ctgggattga agtggaaaac 480
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<210> 6291

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6291

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agctggaaat caagtacttt attcctctgc taggattaag taaccattcc cacctgggtcc 180
acttcttgac caattttcta aagtggagtc agtctgtctc tattgctctt tctctaattgt 240
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cacatacaca aacacaaagt tggaaagcaa gagagcttct tcagtcaagt agaccactt 360
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atgtattata aaaacaatgg gaaagaatat tagaaatgag aactattcca ngaaatctag 480
accgatactt taataanaag ccttcaaaan ccataccccg attnccgaac ntttggggaa 540
cagtaaancc tcttaatn 558

<210> 6292

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6292

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attacaagga agttgtgaac actaatttct taggaggtga ggccagcccc acatgaactt 180
ctcttgcatc cctctgggtcc accatgacac ataaatactt agactttttt ttttcctcta 240
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tataaagcat tctccttctc taggttgcta tcacagtgcg gacctgactg cctgaatatg 360
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agcatcagnt tcacttgagc attttccatg anaggcctgt taaatgcctg nctttggcct 540
ttcaaccttc aaaattaaaa attnnatnna 570

<210> 6293

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6293

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gagattacag gcctcagcca ccgtgcctgg ccctatcctt tcctctgaag attccatttt 300
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tttttgaaa ctgctgtttc taacaagata acatccaaca gaagctacta atttcctttc 480
aaaccttagc ttntggaaat gtaagagata ttaccnggaa atgaatgggt cttggccaat 540
ggatgtaaac tccgagaaac tntnngggna agtaaaaggg ggncaa 586
    
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<210> 6294

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6294

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agagtaatgc acagatgatt gccaaagacca tattgacaaa ttgtgattag attataacgc 180
atagtagcct gccttacatt cagcaagttc aaacaggaca caaaaccagt caactgaaca 240
cagagcagct ctcttcagaa gcacttccaa tgagtgatgc agagatttca aaaatacaaa 300
    
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gcaggcaact tatatacagc aaatcctcac actgcctgga catgtgccac ttttttggtg 360
gttttaatat atttttcctt tctgngtgcc aatttagact gaattcttaa ngatttatct 420
tggatgactt agaaaaatcc cctgnccttt cttactttgg ttcaagnagg accagncatg 480
aaaattgagt naggcctctt aaaaaatgga aggtcncaga tcccatgggg gaaggtttan 540
gaancccttn ccaggtaatg gatcccggga atnttaacag gttaan 586

<210> 6295

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6295

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gatttaagat aggtaattac taaacactct ttacctcccc ttgcaaaaaa cagaggcaag 180
tttcccattt tacttatgat aaaccagatt attttcagtt atgaatattg gcaactgcat 240
gaaagagatg atcagatatg tcagcaggaa agtatgagct gtacaaaggc attacaaaaa 300
aaaccccaaa gaaaataaga taaaaacaac aagagaaaaa caagaaaaca taaaacaata 360
taagaaaatg ccagatattt acagcctcca tctgaaatgt gacttgngtt ctactttcag 420
cataaaacaa aaccagagaa catttcttgg aagggtatca cagatgaagc tggtgccagc 480
cagttttggg ggagacattc attctaagaa gggagaaaacg cncagntagc acttgctggg 540
attccacat tggcttcatc ttnccggaag tctggtacta aaaaaggn 588

<210> 6296

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6296

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 tgatttgagt gtcagggaaa ctattataca ttccgggtga ctcttacaag ttccaaaaa 180
 tcaaatccac ataggacaag aattttcacc actgagaata tgcagaagaa tgtaggacaa 240
 ttctcagagt aactcacaag aagtattcaa atatgattaa tgcaatggca cattgttgaa 300
 acatacgtat ttggatataa aaatctcacg tgcttggtta agttataggc acaatgtatg 360
 agcttcatt tgtaatcttc aaaagagata ctcatgagag gaaaggcaat cagaaagang 420
 gaggattagt aatgggtataa aacttcatga atgnactaaa acccctggac tgtcacttta 480
 atgggcaaat ttatggatgt acatatcttc aataaaccta atttttttta aagaagggga 540
 gattgtaacc taaaagaagt gncttggaang anggaggnt tt 582

<210> 6297

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6297

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 actttttcta ccagatttta atactgagta tgaacatcac atgtagtttc ttttcgcttt 180
 cagtcactta aactgtatcc cagactcttg tccatcaaaa aaaactcaat catctttcat 240
 tcttttttta aaaaaaggac acttttaatc ttatttggtta actttttctt attgtagcaa 300
 aagtgcataa tattacattt accatcttgc ccattttgta ttgtacagtt cagtagtgct 360
 acctgtattc accctgttgt gcaatggatc tccaaaactt ttacatcttg caaaactgaa 420
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 atcttattct ggctctatga atngctactt aaagnacctc atcnggtaga atgatncatt 540
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<210> 6298

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6298

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gactactggc acatgccacc atgctcagct aattttttaa tttttttgt agagacgggg  180
tctcgttatg ttgcccagg tggtctcaaa ctcttggcct caagcgatcc tcctgcctca  240
gcctcccaaa gcgttgagat tagaggcttg agccaccatg cccagcctat tcactctttc  300
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gataattatc taccctgttg gaagccattt taactatact gcattaagac attcattgct  420
tctggcactt tcttactggc tcctaacttt ggttcatggt tccaaaggca ttttaataatt  480
cttttntaa tttcaaaggc tgtgggggtt naagaataaa ttatcaagcc tactgncaca  540
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<210> 6299

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6299

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taaaatattc agaagaaagt caaagttatc tgcaattaca tgttagaaca gattttgcag  180
gttaaaaaga tgttgcttaa atatattcat aagcctgttg taagattttc acttatgcag  240
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agtcaggaga gctactcagt taattgataa agtagaggca acgtggggga gccctcccca  360
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attcctccca tagagcctgg ccaaatacaca ggctttctgc tgtaggcact cattgagctt 480
gctgccgccg ttgncctttc ctttcctttc ccggnittgn ggggggcctt tggaaatggg 540
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<210> 6300

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6300

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gcaatcgaaa tgttttccta tctgaacccc tggtgccagc acagtataca gtagacaata 180
tatgccataa ttattgcct gaactcccca ttgatgtgac catgatatgt caatggaaag 240
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ctcccagaac gtggatatag caaacaacac tatgtacat ccatgaaaaa acttacaatc 360
cagtaggaga aaaagacaag taaacaagca gttattgtag agcataataa gaaataaatg 420
aaaactgcc a tatgggcatt ttagttggta cagtcaatgc caaatagaga gagcagtanc 480
agtttcctga aaaagtgatg gctanggtga gacctaaatg ccggtaggaa ttnaactggg 540
gnaaatgttg gaagcngcnc actttangga c 571

<210> 6301

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6301

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caaccttcac ctctgggtt cgggtagttc ttccgcctcg gcctccagag tggctgggag 120

tgcaggtgca tgccaccaca cctggctggt ttttgtatTT ttggtagaga tggagtttca 180
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 ccaaagtgct gggattacat gtgtaagcca ctacgcccat cctccatcat taaacttttt 300
 aatgtgaaat tctatcatgt accattaacc taacaagatt ttctttccta tttctgactg 360
 gtgcctttcc ccttttcagg agcaatgaaa gctactctgt tagttatgtt cttctgatgt 420
 gacaaaatgt caagaagata ggagaagaga atatTTtTgt ttgntgatgc ttttggtccc 480
 aagtgtgacc ctaaacttaa gctttgtagg aactgaggtc tctcatgncc ctttccttta 540
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<210> 6302

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6302

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 tcttaatgct atcacttccc ttgcctctca cccccgaca ggccctgggtg tgtgatgttc 180
 cccccactgt gcccgatatgt tctcattgtt caactccac ttatgagtga gaacatgcgg 240
 tgtttggttt tctgttcctg tgtagtttg ctgagaataa tggtttccag cttcatccat 300
 gtccctgcaa aggacatgaa ctcatctttt tttatggctg catagtattc catgggtgtt 360
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 tttgntattg ngaataagtg ctgcaataaa catatgtatg catngtctt tatagtagaa 480
 tgatttttaa acctttgggg aaaggccctt ggaaaagggg acttttgggc cagcaatcca 540
 agcngtgana aaagtgagcc atgcnnaccc tttgggaaaa a 581

<210> 6303

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6303

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 caacctgcat tcatttttct taaaactaca tttaaattatt ttagtacatc acagttttatt 180
 ataaaataac cttgagtatt tgtctacatc ccttgaggta ttacaccagt tttcaactaa 240
 gaaatcagca ggaatagaaa cactgcacac aaaacctaca aaacctccta tcaacaggga 300
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 tcaaagggtt ggcaagatgg ctgaatagga acagctctgg tctgcagctc ccagcaagat 420
 caatgcagaa ggtgggtgat tctgcatctt caactgaggg tcctagctca tctcattagg 480
 actgggtaga cagtgggtgc agancacgga gggccagcag aancnngggt tggccgctcg 540
 ctcatccggg aagtccanga gcccgggaac ttccttccct acc 583

<210> 6304

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6304

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 aacctccgcc tcccgggttc aagcatttct tctgcgtcag cctcccagat agctgggact 120
 acagatgcac gccaccaggc ctagctaatt tttgtatttt cagtagagac agggttttcac 180
 catattgacc aggctgggtc ccaactcctg acctcgtgat ccgccaacct cggcctccca 240
 aagtgcctggg attacaggcg tgagccacca gaccgggccc ttaagtggtc tttatgtgag 300
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 agaaaaaaag taggcattga aattgcgtga gagactgcct gccatgtaag agtttagcaa 420
 aatgcctgga ctgcagaatg tgctcaaata acggtaacaa attactcaa aacaaattac 480
 taaattagtt atgggcccta tttttcangg acttntggct tcaganttct agtaagggtt 540

tnacaactgc agaagttgta agtgaanatt tcaggatggn t

581

<210> 6305

<211> 474

<212> DNA

<213> Homo sapiens

<400> 6305

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atacatgtgc catgttgggtg tgctgcaccc gttaactcgt catttacatt aggtatatct	120
cctaattgcta tccctccctt cccccccac cccacgacag gccccagtgt gtgatgttcc	180
ccaccctgtg tcctgggtgtt ctcatgttgc agttcccacc tatgagtgag aacatgcagt	240
gtttggtttt ctgnccttgt gatagnnttc tcagaatgat ggnttcacgc ttcattccatg	300
tccctacaaa agacatgaac tcattccttn ttttggctgc atagnattcc atggtgtata	360
tgtgccacat tttcttaatc cagtcgatca ttgattnggg ttggttccaa gtcttngcta	420
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<210> 6306

<211> 565

<212> DNA

<213> Homo sapiens

<400> 6306

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gcaatttcac tgaaaggaag aaactacaga atgcacgggt tcagaaagct attttaagtt	120
atttacaat aaagtatcta aaactcaaaa acaggctctg tatgctatat ctagtttata	180
ccttcccgaa caaaatttct gttatttggg caaattctta aaccatgggt taaaccgtaa	240
tggttacaaa ccacaaacac atccatccag agactgaaac cgtttctatc cggtcagtgg	300
caaaactgtt gaaagggcaa tagttgaagc tggttgggttt tatatagtgt gaactctgat	360

aaatattcct accaggacta aaacacagca cgctttgcgg gcatggctga ctcacaaagg 420
 ttgtaacaaa caagaactac tcttactcg acaccatggc tcaaaggcca ccgagaagca 480
 cgagtgactg acagcttctc tgnntacaaa cgaatggaac cccaagngga tggcggttta 540
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<210> 6307

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6307

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 tgccatgact gacagaacag agaaaccagg aaaaggctcac acacggtttg agaaaccatc 180
 aaaatgtggt gtccatctcc tggccaagac aggaatttac agcaccattg tgggtgttcaa 240
 aaactgtcag aaaccttagg aattgtcaca gttaccacaa ctacacattc cagcaaagag 300
 gaatggaaga cagaggcaac atgaaccagg agggtagaag gtctgtcccc cagcactgaa 360
 gcaggcacia aggcataacg tgaaacactc atggagaata aacaaacagt ttaaattgca 420
 caattaaact ataaaattca aactgactg caaactggct tttaaaatgt gtagacctat 480
 caccctacta tggnttatct cttttaccaa aaatctgnca ggttcaacta ttttggtaca 540
 tangnatttc ttccttttg naggcagact taactatttt nta 583

<210> 6308

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6308

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acctctccct cctgggttca agcaattctc ctgcctcagc ctccctagta tctaggatta 120
 caggtgccca ccacccgccc ggctaatttt tttttttatt tttagtagag atagggtttc 180
 gccatgttgg ccaggctggt cttaaactcc tgacctcaag tggtcctaac acctcggcct 240
 cccaaagtgc tgggatttca ggtgtgagcc accacacctg acctcattta cctattttggt 300
 aacaataaga aaatagctac ccccaaatta gtgccgtatt gacagtaagt tatgtgcaaa 360
 taatattctt taaaagatta agatgtgaat gtgcttacat acaataggag aggtcatcca 420
 cgattactca atgtatactt taagttggaa aatcacaata ctgatgaaat aattccatga 480
 tatagattat catttttaca ttcattgnaa aaattaagaa caggtcaaga agcttaaagc 540
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<210> 6309

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6309

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 agatgctagc tcttttccta gctgacaatt gacagtatct ataaaccttc caggccattt 180
 aactctcaat gagtaatgct atgtaacaaa tggtttatca tacatgtttc catacaatga 240
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 actgactcaa aattacaccg aacaactaaa acagatttat tgttctacgg tgatttactt 360
 ggtcatgtca gattagtaat atggatctgt ttaaaaacac aaaaattaag acaagcagga 420
 taaattaatc aacttacaat atggtctcat actgcaatca aatccggcaa ataacagtag 480
 aaaatcttgg ntcacagaat ctctttaaac tgnntttatg cataaattaa anccttaagg 540
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<210> 6310

<211> 592

<212> DNA

<213> Homo sapiens

<400> 6310

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tttggttatg tcatttcggg ataattttat cagttgtgag agtttaacaa taaagaacat  120
aaaacttgct gtttcataaa aatatgaaat tttcctggag aaattttgac ttaataaagg  180
aacaagaac tcagtttgta gtgaataaaa ttttacattc acttccccac tttctcatag  240
aagatctaca gttggggata accgataaga ggcaattggt ttctggctta agagcctttt  300
tcattaggaa ttttcggtaa attaaagtct gaaattagaa aaacattaga cattaatcaa  360
cagaccaaca ccagtcacgt aaataaatgg cattcgtata atttggcagc tgaaattctt  420
aaataatctg gcaggatcaa ggagagaaag aggaaaaatg aaccgttcat cattctcact  480
gcggtctcac cgtttncctt cacaccccat tacagcgaat ggaagagaaa ggaccatcgt  540
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<210> 6311

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6311

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tgcagtcact acaccactcc cgggcttgta acccatcaca gcctggactc ctttgggtcaa  120
agccctcaca ttctcttgat ggaaaaaagt ttigtcaacg atattttcaa tctgctttgc  180
ttttttatct ctgcctagct gcatttttat ttcatcactg ttcattttgt tctctaggag  240
tcgctggtgt tgatgctgaa aagttacagg atctcttcca ggaggaggat ggaggtacag  300
cagcttacca ctgacatagt ccttcaggat gtagcgcgca gatcgaggct ggtctggctg  360
tccatgcgct gtcattgaat ctgcgcatgtc tgtggagaga aaagaatttt gcaaaatctt  420
agatgacaga atatcacaa aaagacaact gaggtgatgt agcttctatt actaagcatt  480

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cttactcttg gattttaaaa aattangnat cantggagaa tatatattgg ttaacattaa 540
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<210> 6312

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6312

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ccccccatc cccccccctt gggcaaaaat agctcccagc gccgaggaat ggggggtagg 120
aagggtctcg gataacggga tggggcctcg aggggtccctg tggggctcgt gggtcccagg 180
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cggagcgaac ggccccgcaa gtggtcttgc gcttgaaacc tgcgcaagct cgggcctctt 480
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<210> 6313

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6313

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atggggaaac tgaggcagag aggtgatgtg atcagccagn ggtcccaaca cagctgaaag 180

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cngggttnag aaggc 555

<210> 6314

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6314

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cctccacctc ccaggctcaa gtgattctcc tgccttagcc tcctgagtag ctgggactac 120
aggtgtgggc caccatgccc agctaatttt tgtattttta gtagagacgg ggtttcgcca 180
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tgcataaaga gtaattggat tgcaaagctg aatgccttca aatataacat attttactgt 360
tatgcaaaag ttaccatgtt attcctaagt gataagccag aggaaaggaa ggtgtttctt 420
ccttctggca aaaatatccc atagttaagt ccaggaacaa atggctgaaa acagaaggca 480
atgaccatgg acaccttttg gatcctaata ccttttagtaa agacncagtt aaacagtcca 540
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<210> 6315

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6315

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 tacaggtgcc tgccactgtg cccagctaaa ttttgtattt ttagtagaga tggggtttca 180
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 cattgactat atttatgaat tcatacatga tcattcttca actaagtatg aactaactcc 480
 tggattcttg gtctagttag ggcttaagaa attatttcct tctaaatcca agggactgct 540
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<210> 6316

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6316

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 aaaacctata tacaagcatg tgtgtagctc gaaataaaaa taaaaggact atttcatgtc 180
 atgactgctt gttggcttcc tcttcatatg cattccctgt gccattctgt acataggatg 240
 aaccagaacc aaggccatac aaatgaccac aatatttggc atcatcaata tgatcttcaa 300
 agaacatttc tctcattttg aaaaaggcca ttctgtgag caatgaatca gatcctgcct 360
 gatgttgttg tcctatccgt tccagctcta actgttctgc cacctcctgt aatccacctt 420
 tgagattttt gcagctcttc atgaggnact tcacatcata aatgacagga aaaaacaatc 480
 gaaggatctc aaagaagcaa gtcttcttan gcaagntaaa attgggtang aatttgatta 540
 agnacccaag tennanccgt tttaaaggcc acctttg 578

<210> 6317

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6317

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gatatagaca aggaaatgtg ttagtaactt gcccaagatc acaggtgggtg aaggtagtat  180
tcaaaacttc agacctcaag ttcttaatga ctacagtaga tagaaacatg ggaaagtact  240
tacaatactt tgatttgaaa aagaagaata taaaatatat actaggtaca gccctataaa  300
aatatgtgtg tgtgggcaag gacagaagat gagctataca aatgaacaca gatgttatag  360
tggtgtggga tggttatgag tgaaacagtt ctctaagtnt gntaatatat tttaagaaaa  420
aattttttaga agtcatgaat tcacaaataa ctcttctacc attactatta ttattctgnt  480
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gggctccttt a                                                              551

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<210> 6318

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6318

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cgcacgcagc cgccggagtt tccaaactgc gatcccttct cacccaaaga aacaagggga  180
gtatgatcca tgatcaacaa catgctaaag ttaaacaaga aaatggtaca aaatagaaat  240
tattaccata catgtccagc atgcaggatt aatattttta atgcagattt ttgtatttt  300

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tctatataat cgagcaggca ataaaactga tgagatttgg gcgccgagcg tcctaactga 360
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 tccttccttc tttcgctcaa gctcgctntn gcctgccggg acgccagaag tccctcttct 480
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<210> 6319

<211> 512

<212> DNA

<213> Homo sapiens

<400> 6319

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 gggattacag tcgcgcgcca ccacaccngg ctaatttttt tttttaagt anagacaggg 180
 tttcaccacg ctggccaggc tggngaaaac tcccaacctc aggggatcca cccacctcag 240
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 ttttttttaa agttttgnga aacactaaca gggtttgaaa nagggcattt tccaaaacaa 360
 attactatat tataatgnngg aatcattaac ttttcatatg ataaaagggg gatgaaatca 420
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 actnnggcac tggctgggggt accttgggcc ca 512

<210> 6320

<211> 530

<212> DNA

<213> Homo sapiens

<400> 6320

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ccagccctgt gcacganaag tcacgccatg cccacagcc tccagtcctg gctgctggtg 180
 gctcggggac ccgcagggca ggagggtccc gggctctcgca gttccatgag cccagccgc 240
 ggggaccccc atggacaaac ttccggggct gcacctgccg gagcagcgtc tcccaagcat 300
 cggaggncct tntcancag ggctgagccc tagtggacan agccgtgagt ggcaaggcgg 360
 gagtcagggc tctcgagtc gtcaattcag caagaaagcc cctggcccgc accttcaaac 420
 tggaagnggg tggctagggt gccggangca nangcccaaa aagggttaag cacaatcctg 480
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<210> 6321

<211> 516

<212> DNA

<213> Homo sapiens

<400> 6321

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 tagttaggac tacagggtgca catcaccata cctggcaatt tttttttttt tttaattatt 180
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 aaaacaatag caaaagcaaa aaattatact aacagctggc atatatgatt ttatctgcta 420
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<210> 6322

<211> 598

<212> DNA

<213> Homo sapiens

<400> 6322

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 gtcaaagggg gttgttctct tgcgggtagg ggtgggggtc ccaagggtgct cagtggggga 180
 ggttctgagc caggagaagg aatttcacaa ggttaatcgc tcagttaagg tggggcagaa 240
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 ttaatgccat atttggtgta cttcgcaatt cataaaaaata ggttttcaat aaatttgaac 480
 atacatactc acttgaaaaa agatncttgt aaaaatggct ataaaatatg ggtaatgggtg 540
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<210> 6323

<211> 594

<212> DNA

<213> Homo sapiens

<400> 6323

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 cagggtgcct ggtttatgac agggattgat atgaggcagg gctgccagggt gtctgggtctg 180
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 ggtgtgtggt agataaagct cagtttccag ccagccagggt tgagctcttg atggctttgc 420
 aatttgtgca aagttctgga agttccatac tcctctgggt gccgggataa ttccagggtt 480
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<210> 6324

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6324

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acagcagaca ctcacaacaa gccacagtca tggggtggtc aaaactccca atctccattt  180
tcatgcaaag ctgaatgggc agctcagacc tttaaaaagt gtcatgaaca cataggtcct  240
cttagtctct gtctacttga caagatctct tagtgtccat gtgtgataga acagcacatg  300
cctacactgt gtggagtgag gggctgccag agccacacgg ttagccttc tgtccccac  360
ggaggcatgg gtgagaggag agacacaaga cagagaggaa gactgccatc angcttgcg  420
aatgagctt gagggtttat ggtttgaggn tgcaaagaaa gaagaaaaat aaggaanatg  480
gggttgggga aaaagaacaa ctgggttaag ggaagangan ggatgtccng aaaaggnctt  540
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<210> 6325

<211> 599

<212> DNA

<213> Homo sapiens

<400> 6325

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acaacctttt ccaaagacag agctgccggg agtgtgttta ggacacacac ctcgtacagc  180
cgcacttcac cactttctca acctcgtcca caaaggagga gccgtcagtg cattcgaaag  240
agtatttccg ccgcttgctc ctcagcggtc cacagcactg ccctcctgca caccacctc  300
tgcactctaa tcgggacacc ttcttggttg ttggcaagc agcatagccc tgctgctttt  360

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ggtaataatc tcttatacctt tcccctcgac aagagatttc tcgatcacag ctgtcccccg 420
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gcttgcactt gatcgccctgg catgggttaa acagatcctc ctcttcatca cagaggacac 540
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<210> 6326

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6326

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ctagtaacag gcaattaaca aactaataag aaaatcagca ttttaacaat ttaaagcgtt 120
catgacaggg taattcatgt ccaacatatc aaaaacatat ttatagataa ctttagaaag 180
aaaatacata ctttttttga taatcacaag tagcaatgag attttctata ttattttcag 240
tctcacttta naaatgtttt aattgnctaa atttaaatcaa ttcacatgatt aaaggaaaga 300
caataaaata gtaaaattac atgtgtttat atataagtgt gtgtgtttca aataacaaaa 360
cgcaggttgt aaactaaaat cactggaagg caaattgaag acaaaagtga tgctggttta 420
agttgtttgg ttcttcacat aaattccagt ttccaagttg ngttttacaa ctctagtaat 480
atccagatng ataattcaac ctgcactttt ttcttctatt cctggtttct ctttggtcacc 540
cggaattttt ggcttttact ggaactgggt aataaaatag gactt 585

<210> 6327

<211> 593

<212> DNA

<213> Homo sapiens

<400> 6327

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tttacatcaa caaacacagc agtttgacta ttgaaatcat aagcgattta tcttgaaaag 120
 gttatatttg taggtggatg caagtatatt ggagaaatat ttctatcaaa atcactgggt 180
 ttgttaggag tattttgatt tttctatatt tacgctggga aaaaaattaa aacaagtatg 240
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 agctgtttat cttgcaactt taagattaat taaatgcaaa tgtaactctg tgaatcatgg 360
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 ttaatttgct aaaagaaaag tgctaaagca gccctttgcc cacaacaat tctgcgatgg 480
 ctgccaatt aatcccaaag catctgatcc tccttcangc ctcngngncc tttgaggcnc 540
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<210> 6328

<211> 593

<212> DNA

<213> Homo sapiens

<400> 6328

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 tcaggagatc aaaacatcc tggctaacac ggtgaaaccc tgtatctact aaaaatacaa 180
 aaaattagcc aggtgtgggtg gcgggtgcct gtagtcccag ctactcggga ggctgaggca 240
 ggagaatggc gtgaaccgag gaggcggagc ttgcagttag ccgagaccgc gccactgcac 300
 tccagcctgg gcgacagagc gagactccat ctcaaaaaac gcgtacagca aaaaagggtg 360
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 aggaaggagg aagaaagctt tgtcaaaagn agcctgaaat tcagcctntt cctatctggt 540
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<210> 6329

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6329

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acacctggct aatcttttaa tttttggaca cggttttgct gtattgcca agacggctctt 180
gaactcttgg cttcaagtga tccccttgcc ttggcttccc aaagtgtggg attacaggtg 240
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atgcccttgc ctctacaga caaagagtga ccacccacc caatttcctg gcacacgctt 540
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<210> 6330

<211> 594

<212> DNA

<213> Homo sapiens

<400> 6330

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tttttgagcc actggaaaag tgaactttct cacagaaata tttaatgttg tcaaaagaat 120
actctgtttt aacaataact ccattaattt attactttta aagatgcaca gtgctgcttt 180
tacacattaa aatttcagtg acatcaacaa cataactata tgtaaatatt ttgaactaac 240
atttcaaatg tagactgacc acatgtttga tttaaagctt aaagaatcaa tgttcccttt 300
tgtgaagatg gcttttgttg tcattagatt ctactgattt tttaggaata gagctgctcc 360
acactgaatc cactggctct gggtgcccc acatggaaca tcaatattgg taaccacacg 420
atccctttca gcacttgtgt aaacaggcaa agagatgcac tcatccggag aatatggacc 480

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acgtgcatcc tgtggaatcc agcccataaa acaagggaca ctgatgaccc ctgggagaat 540
caagcttgat ttcanaaagt ggattncatc aaactacatc ctttagtacc aagc 594

<210> 6331

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6331

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ctcatctcag tcttacttgt agctaggatt acaggcatgt gccaccaagc ctggctaaga 120
gtttaaagtt ctgacaagcc acttttgcca tcaacatcac tattattatt gccattattc 180
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atttaaatat gcatttcttt ganacccttg gtaccccacc ctactttaat ggtaaaagaa 540
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<210> 6332

<211> 590

<212> DNA

<213> Homo sapiens

<400> 6332

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caaattgtaa tgtttacaaa tctcaacttt taatcatggc aaagtggaca ttcacaacag 180

cttcagaaga gaaaagaaaa tcagtgatat aacaaacatt taagtatcat ttacggcagc 240
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ttaatataat gnacttcaaa ctattaaaaa aaccgggtct atggncaggt tgtttaaaca 540
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<210> 6333

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6333

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aaggatctaa actttttaag ttttaaaatt taaaaatcac ctgctttaat tgccgtaatt 180
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ctctaattct cggtncatg gtctgacatc tatttccttt atcttctctg gcagncatt 540
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<210> 6334

<211> 540

<212> DNA

<213> Homo sapiens

<400> 6334

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 aggggaaatc cttgatgacc tggatctttt ccatgttgcn agtggcggnt tntntcgtgt 480
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<210> 6335

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6335

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 tacaggcaca tgccaccatg cccagctaata ggctaatttt tttgtatttt ttgtagagac 180
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 cttcccccaa acctntcagg tgctcaaagc ctggatcccc aagtctctgt gcctnctnac 480
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<210> 6336

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6336

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ctttcacana aaggattatt tacagtttat gtagatataa agctcactgt tgcatatatac   180
aatgtanatg tgcanaggca atatatacca aaacgggtat actgacaagc gatagatatg   240
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cccatagaac tattcataaa tccaattagt tctattaaac atattaactg nattgggttaa   480
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<210> 6337

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6337

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ctctagacct acgttcccca acatggtaag catcagccac atatggctaa atttaaataga  180
attaaaatta aataaagtta aaaacacagt ttcttagcca cattaaccac atttcagatg   240
ctcggcagcc acataggacc acgtgtactc tacaggacag cgcagacatt tccatcttcc   300
actgcagaca gttctaccgg acagtgtctg tctggactca tttgggtttg cttttttaaa   360

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attgcatttt cagacatttt tataactttt tgaaatgtta aatgactgct ccacagagtt 420
attcatttga tggtcacacc tactcaatcc cagaaccaag catttttagtg taattgcaga 480
aatgctctga accaatcaac ctattggcct atttgggcaa attaggaaga aaaaaactat 540
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<210> 6338

<211> 593

<212> DNA

<213> Homo sapiens

<400> 6338

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aaaggtacag agaatagagt ccaaatgaag tctccaaatg acaatatgcc agagaacacc 180
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taaagtacaa aagaaaaata acacaatttc tatgaaatat caggataagc atagcaataa 540
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<210> 6339

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6339

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gcattcacag gactgaaaaa taatataaat aggattccta cagtaaacia gtattgtttc 180
tgtttcaaaa ccatcctgca agcataacia tcagctgggtc ctaaagcctg taatacgtac 240
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tggatatggt tctagttgta tgcttcgtaa gtgaacacca aaataccata aaggtagagg 420
agagtgaaca cataaccac ttgcaaataa gaattacctt gcaagattcc tttttttta 480
tcttaacagt ctatgcgtat gaacatttta ttctataata taacttttta tataaaaata 540
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<210> 6340

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6340

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tacaggcatg taccaccata cctggctaatt tttttttttt tttgtatttt ttgtagagat 180
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cctgggtctcc caaagtgttg ggattacatg tgtgagccac cgcttctggt ctattattgc 300
tattatatgt aagctcatca tataatgcag aataatttgc taaactgaag agttactctt 360
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caaggctgcc tggggctctg ccacttacca gctctgtaac cttgggcaag ttacttatct 480
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<210> 6341

<211> 596

<212> DNA

<213> Homo sapiens

<400> 6341

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tacagttgca ttttacaact tttataatcc tgaagagatt ctcttatttg gagttttttc  180
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ggaacatcag tattaggaac attaaatata tctctaaggt cgtttaattt gcttacaaat  360
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tctgcctagc ttctaaacat agcctaactt ctaaagctgg cattaatatg taaagagtgg  540
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<210> 6342

<211> 594

<212> DNA

<213> Homo sapiens

<400> 6342

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cacaagcgtg cgccatgttc ggctaatttt tgtattttta gtagagatgg ggtttcacca  180
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tttttcaaac ttataccaca aaattgccga gaaaatccca aaaaaggaaa caaacctag  360
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atacaatcct cttaatgatg agaagtttac aagangtgga gaaaaataac cgggggttaga  480

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agcagtattc attggtttaa agctgaagnt aaaacttntt nattcttttt cgatggtaca 540
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<210> 6343

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6343

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ctgctgtgtg cccacacttt ggntcccgag gtctactttg ctctnctgc accccaggag 540
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<210> 6344

<211> 501

<212> DNA

<213> Homo sapiens

<400> 6344

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agctgggaac tacagcacca gagaggtgaa cttgacctct ggtggacaaa gcaacctct 180

tggctggtga ttgaggtggc caacctggtg cccaacaaca gctttgatct aataaaactg 240
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<211> 602

<212> DNA

<213> Homo sapiens

<400> 6345

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<210> 6346

<211> 603

<212> DNA

<213> Homo sapiens

<400> 6346

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 tatcttgtag agctgatata cggttatgag ttacatgtgt catacagagg caaagtacat 420
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 gtcacaatt aggaacatg aataacttct tttggagtaa tatatatnta taatggaagg 540
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<210> 6347

<211> 590

<212> DNA

<213> Homo sapiens

<400> 6347

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cntgnaggaa acttnttttc cttggcctaa nccittttacc agttcacacn 590

<210> 6348

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6348

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ctctcagtat ttagatgagg atagaacaga tacggngtaa cacgcctctc cactgcttac 180
tgtgtgtacc aagaaggcag aaagcagctc acccaagcct aacctggccc tgtctttttc 240
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gcagtggcaa gggggcaata cgtggagtca ggatggagga acactgggtg ccaagacagg 360
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ggatcactga aaagctgtgc caatgcatta gccatgaaac ctaagaaact tcagacatgt 480
ctcctctggt taccaagagt tgcattatct tggggacttt ttgatttcag gccattcgga 540
attatggcag ccattgnicn naggataanc tttggnnaca aaa 583

<210> 6349

<211> 594

<212> DNA

<213> Homo sapiens

<400> 6349

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tgcataactc accatgtgga cacagaatat cttcattaaa atttaatccc tcctcttctt 180
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cagttttata atcttcattt aagttgggtt ttcagacgca atatgcgaca acgttctact 420
acacattcct tacacanggg cttttacagt tagccttgga cctcctccat attactatag 480
gaaangcaac tggatatcag aaatcctctt cataatggaa atttaatccg ggngaaactt 540
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<210> 6350

<211> 190

<212> DNA

<213> Homo sapiens

<400> 6350

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caggtttggt ataaaggtaa acttgtgtca caggggtttg ttatacagat tttttcttca 120
cccaggtact aagcctagta tccaatatta tttttctga tcctctccct cctcccaccc 180
tgtgcaccct 190

<210> 6351

<211> 525

<212> DNA

<213> Homo sapiens

<400> 6351

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acaacctccg cctcccaggt tcaagcaatt ctctgcctc agcctcctga gtagctggga 120
ttacaggcat gcaccacat gcccggttaa ttttgtattt ttagtagana tggggtttct 180
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actaagaagt ttctagattt gagttaacac tattatctct tgaagctcat ataccctacg 360
aggtagacaa tgcagataga tacagnatt ctcattccac acgtgaagaa actgattttc 420
agagactaat ttgcccaaag gncacacaac aaattaaggg anaagccaaa cttggaccca 480
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<210> 6352

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6352

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tctatttcat ttggaaaggg gaagattccc aaatcaaact ggttttgatc cttagaaaag 180
gcggcagagt taattcatgg caacatatgg ttagacaaaa tcctcagtaa gaatgccata 240
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gcaaggaatt gaaacagata agatagtttt tacagatact gtatacagat ttttttttcc 420
attcatgcaa cttttttctt aaaaaaagtt aaacatgtga agcccaaag ccgaatacat 480
ttttttaaat attaactaaa ttttctgggg cctccttaca attggtacct tttccctngc 540
cataangggc tgggacaag 559

<210> 6353

<211> 535

<212> DNA

<213> Homo sapiens

<400> 6353

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 tattataggc catcaatttc catacgactc ccacacagtg gtggnaccca aggtggnttg 480
 gggacntgna agaaacctta gncaccaatt aaaagtggg cgggacangc agnca 535

<210> 6354

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6354

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 gatggcctgt caatcctggt tgcgatggc actgtgaagg cccctctgt gtccggcagg 180
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 ccactccccg caagcagggc ttgccccggg ggtggtgttc tttggncact ggccttatgg 480
 cgcttaagga aactngnccg gtagaaaaag acttgagaca nggacttccc ctgngcgtt 540
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<210> 6355

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6355

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 cttacctttt tgcacagaaa tcttattgng aagtcacat agagtcaata gctaaaattt 180
 taagactttc tttggccttc tgatattaaa caaattattt acaaactgng atcagtaatt 240
 cgnggatatt ggtaaaatga tncaattttt tgttggtgtt gttaagggtt ttccattaaa 300
 aattgtaaaa caactttgta aggctgtaca gggctgtaaa ctactttgct aatataccat 360
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 atgcattcct taaaatcatt atgatttata cccaaaggga cctttnccat taaatcccct 480
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<210> 6356

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6356

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 aatgttaaca ctttcgtgtg tattcttcta cacttttcta tgttcatata aacatccaca 180
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 taacctacct gcattacca ctttcctca agtcaatgca tactcttcta tacttttctt 480
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<210> 6357

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6357

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gattacagcc tgcaccacca caccagttg tttttttgt attttttga gagacagggt 180
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agattatgcc actgnaaata aagataattt tatttcttct ttatgaatta agnggctttt 480
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<210> 6358

<211> 556

<212> DNA

<213> Homo sapiens

<400> 6358

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ccaagtctca ccaatgacct agagcagggt ccagagccca aaggcccaa agtgcaattc 240
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gcaagggtgt cttt gatgag cctgcgc atg gtgggtgtga ctgagggtgcc cagggcatca 360
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<210> 6359

<211> 538

<212> DNA

<213> Homo sapiens

<400> 6359

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<210> 6360

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6360

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 caggaaaaaa ctggagttaa gcagccacca gacaaggaat gcctgtagcc ccccaagctt 480
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<210> 6361

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6361

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 cattnatggc ctaangatta agcttacnnt gaattggcca tggacaaggc atgcttataa 480
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 angccatt 549

<210> 6362

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6362

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actgaatgct agagagtcag tcatttcact tgcctgaacc tcctcgtccc cttgtccaga  180
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<210> 6363

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6363

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gggtgggacg ttaaaagaga caactgccca gggaacagta gtttaccat taaaagtaat  180
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gcacaagtta acctgggaca agaagcatgt ttacttgatt tgaattatag aactatgtat  300
ggctccttaa actccccctt agtaggggct gcattggagg ggaggggtca agaggtctca  360
ttcctgaaaa ctgaaaggac aaactgcata aagnccaagt tgnctaagac agatgccatc  420
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<210> 6364

<211> 446

<212> DNA

<213> Homo sapiens

<400> 6364

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<210> 6365

<211> 535

<212> DNA

<213> Homo sapiens

<400> 6365

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aacaaatgac aaggtaaate cttatgttaa atataagata atnccactt tcatttatta 180
ttttctaata taaaataggc ttacctaaaa caaacctgaa aagtttgaac tntgcaagta 240
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ttttagttnc ctcatcttct tttttatcca ttcaaagttt tatgctaaac aaaaactata 360
tgaatagggt caaacctgtt aaaagtgenc accgttgaag acttcctttc caatttcattg 420
gacatatncc tatcctaaaa tnggaattaa aaattttccc tttttaaaac ccaccgnttt 480
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<210> 6366

<211> 568

<212> DNA

<213> Homo sapiens

<400> 6366

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tgggattaca gacgcccacc accacaccca gctaattttt gtatttttag tagagatggg 180
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taaagcattt atagctttga gtctcccttt cacacactca actagactgt atgccccacg 360
aaggcagaga ttttcggctg gttcttncct gntgggatcc tcaacatcta aaaatagnng 420
ctggcatana agtaaaaagt tctataagna ttttggtaaa nggntgaatc atatgctctg 480
taaaaaccng gtttttttat ttccaaaata ntttaataat ngcttaattt tgngccccaa 540
aactggggga tttggnaaag gggggaan 568

<210> 6367

<211> 492

<212> DNA

<213> Homo sapiens

<400> 6367

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 aaaatgcaga gcaatgggat ccctgacttg actgtgggca gagacagagt aggcaatgaa 240
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 ccatcatctg ggctgtagcg gaacagtgag tatctctgat gaatgatggg ctctatatgt 420
 ggtgggctgc ctttcagctt ggatcaagtg ctgcaaance tanagacang nttacccatn 480
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<210> 6368

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6368

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 aaccgccttc ctccttgctg gttcagaatt attttttggg ccanggatgg tggcttatgc 480
 ctataatggc agtatatttg gaagctgang gcaggaggat cacttgagtc caaaagtttg 540
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<210> 6369

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6369

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 tcataggaag ttgctgtcct aaattcttag gattgccatg aaataccata gtgttttaag 180
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 ttgagtacaa gcggccattg tggactgnat aatcagcatt gtggaagaga accctgagag 480
 taaagaacag gcctagncca cctttngaa tcattggggc tgggacacct ggtctggtac 540
 taaaatctca cttgtgggca aanagncct aaa 573

<210> 6370

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6370

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 acctccactt tgaagaacaa tatgggggtg gagcttccaa tgtgcattct gctaccagcc 180
 tcaggattag cagcaagatg ccaacagcaa cagcaacagc aacagcaaca gcaacaagg 240
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 catgagaaag aattaacaca cacacacaca tgttcacatt ttntgcgang gacagtcaaa 480
 ttangnncca aaggaggat aaaacatttt agagaacnca aaagcctggt gccttgccca 540

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580

<210> 6371

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6371

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aacctccacc tcctgggttc aagcaattct cctgcctcag ccttccaagt agctgggatt 120
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ccttcaatca tgtcaagctt gttttcacct caggatitit accaatggc cgttgnctct 360
gaaattctct ctgccctgat cttaaagggc tgnctcttgg cattcagaat tagtactcat 420
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tataataagc tggaatitit gcttgggttg ctatggcaat ctgnccagt agaattcgaa 540
ttcatgagaa acaaggitit gtttgt 566

<210> 6372

<211> 511

<212> DNA

<213> Homo sapiens

<400> 6372

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tgcaaccttg aactcctggg ctcaaacaat actcttgccg cagacgcctg agctgacagg 120
ggcacaacat catgccaagg tagcttttaa atttcttgta gagaccagaa cttaccatat 180
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 gcatgtcaat ctacaattat ctcaaaacta aaagtttaaat gaagactttt tttttttttt 420
 tttttttgan acagggcttt tgttgnccaa gcttganttc aatggcncaa aaaaacagnt 480
 tactggaacc ttgaccnccc aggttaaana a 511

<210> 6373

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6373

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 aggcgataaa tctgatgctt atttggaata gaagtaggca ttctttagat gagctgtgct 180
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 agggagaggg gaggggagct agtagtcac agctaaaaaa gagaagaaga aaagtgattt 360
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 ggtaagaata caggtctagc tgcagatcct ttattggtga ctgnittaca catatactct 480
 cctcatcttc tggggaaagt tcttggtagt naangcngt aagtctccc nttcaatata 540
 tggaaggctt ttcacccgna ggatttntcc tt 572

<210> 6374

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6374

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 taacctgaac ggttcagtct ttttgtcatg tatgtggcct ttggttctcc aactacatgg 120
 gatctgtgtt gttagcttaa aaaatacaga attggccttt caaaaaaaaa taataatcta 180
 cagcaaccaa taaatagtct caaacaaccc tgctgactgc agctgccttc tgaaggctgg 240
 gaaaaggagg tggagataga gcagaaagag gcagggaaag gggacgctgc agctagctac 300
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 actaaaaaat gccagcttct tgaaaaggan gggncnnggt ccttggaac ttctccttc 480
 cttttttcc aggaactttc cgtaaatcta aaggggtgcc ggggcnaat aggggacaag 540
 gggtttgnc aagaaatttt gggngcncca cgggn 575

<210> 6375

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6375

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 atcagatccc atacgagaga gactctcttt caattctaaa tgaagtcttt ttctgccttt 180
 gtgatgtgga atgagaacag cttttaggtc caaatctgga acaatcatag gttctaattct 240
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 gtaattctca tctatcctat caactcctcg aatagtgaga aacatagcaa ttggagaccc 360
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 ggcgccaact tcaaaagatc ataattcaca cacacagaag acacgcaagc accaactggg 480
 aagtttcctc tttggctcat tggattctga ngggaaggga ancntgcttt agncttctgg 540
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<210> 6376

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6376

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acatactcag catttatact tgtaaataga attgagtttt cattgtttcg ttttctgttt 180
ttgtttcctt aggaacaaga ggatgaagga aatatgggtca gcattttaat aacaccataa 240
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tataacttga aatccaattg gcttcctctt tcttagaaac aaaaaccaa gaaacctttt 360
tctgaaagac attattttcc agtattaggc caatttgtcc tcaaattaag tagaatctca 420
acatcttggt gagccagttt gtaaattcca acttcattta atgctgctgt ggcaggangc 480
ttgcctggaa ctgntggagg acatntttta caatagtga aaacccgcgt tcaaaatcna 540
aacaatnccg ggtttttt 558

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<210> 6377

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6377

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agaaattttt agatggaggc aactgggatg tttgtgataa tagataagaa agacaccact 120
gacctgtagt taaattgggt tgaattgcag atattcatta ttgaatttat tcctgttttc 180
tcatacttta gaaaagacac ctgaacaata aatgaatcct ggatagtgtg ctgtccttca 240
aacaatgaag tgatattaat acttgctgc aggagatgca tactacagga gagaaccctt 300
agactatgtc aggccacact atgaacctcc cccacctgc cttttttctc ctttatgttt 360
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taaactatatt ataaatcgaa aaaaaaaaaa aacaacacag ggcttctgca gggaatattc 480
 tttcctcaat attctacttt ccttaactct tctttgaatt tgcttaanca tttgaggctn 540
 cctggcaccc tttttttcca ata 563

<210> 6378

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6378

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 acagaacagt attactagtg tctatcagtt atgtaaagct aacaaaaaac cgtgcattta 240
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 ggagcagggt ctactctgt tgcccaggct ggagtgcagt ggcataattt ctgctcactg 480
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<210> 6379

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6379

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aaaatgccca ctgcggatat ctgacacctt ccattcaca gcatctacaa atgagtcgat 180
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 aantcaaggc actttgcttn tnggcattac aaacagtcca tgcttaaggn gcanattggt 540
 ccataaattn 550

<210> 6380

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6380

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 ggatggcaga acctgcggaa gacnaggcgc aaccgggatt ctagcttaag gaagtgttca 540
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<210> 6381

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6381

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agttttaaaa tgctagtttg gttggtttgg cttggaaagg angtaaaagt gggaagtnaa 540
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<210> 6382

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6382

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tcagggtgct tcaggccaga ctnttgcgct gaatgctgan gcttaaggaa ccttgggnca 540

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ccccaaatgg tgagacaacg ggtgaaccaa ccaccngagg aaacnt

586

<210> 6383

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6383

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 naaaacccca gtt 553

<210> 6384

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6384

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 cccaggggact ggggcatcat gaacagtgct tagcgtctnc acgtaggcct cgttgatgtc 480
 cgtgagcccc agcgcagggg aatgagaagt accaggggct tcatggcgaa cggctgttgt 540
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<210> 6385

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6385

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 ggctttctgca acatgcatat tccccagcc cccacctnca tcttgcccag ggcagaccat 480
 tcattaacta tctgcggggg gaacaaagaa tcccaatcct tagatgtccc aggactcatg 540
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<210> 6386

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6386

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 ccccttaa atcaaatgta gttacattct ggtgcaaact taaaagtaat tttcaaattc 180
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 ntaaccccat tccataccct ggagatggag 570

<210> 6387

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6387

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 aacttcta ataatgccata acttaactat tacctctatt tgtaccttc acaaggatct 180
 aggttcaaaa taagctcaaa acacagcact caccacttca acagcagtc aaagtcaaat 240
 ggaaaaactt ggggtatatt ctttgaggga tatactagga cctgagaagc aacatgttcc 300
 tggttggtag gtccacaaaa aatttaaaca tgcagaattt tatggactga caaaaaaat 360
 taccaattta agtgatcaat atattaatgg ttttcagagt agtaccgat atttgatggt 420
 caaggtcatg catgggtatt ttnaatcct taacctagac cgcanggtat aagtcacat 480
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 aataatgnga ngacccg 557

<210> 6388

<211> 585

<212> DNA

<213> Homo sapiens

<400> 6388

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tgaggaggact gcttgagcct gggagttcaa gaccagcctg ggcaacatag tgagacccca  180
tctctacaaa aaaaacaaaa aaaatagctg ggtgtggtag catgtgcctg cagtcccagc  240
cactcaggag gctgatgcgg gaggacagct tgagcttagg aggtttaggc tgcagtgagc  300
taagatagng ccactgcact ccagcttcag ctacagagca agaccctgtc tctaaaaata  360
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ctgcccaatt agaactttct ccatgcaatg caaattacag ncacttgagg cactgggatt  480
tctaagttna atttaactaa anacggggac ttgaaacagn ccacaccgtg ggntcctggc  540
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<210> 6389

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6389

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cctctcgcct tggcttccca aactgcttgg attacaggca tgtgccacca catccggcct  120
aaaagttttt aagagtaata agcaaaggta gatgtgtatg tgtgtgatac tgtcatgggtg  180
acatttgtcc aaacctatag aatgtgccaa gagtgaacac tgtggactct ggttgatggt  240
gatgcatcaa tgcagtttca acaactgtga cacatccacc cctctggagc gagaggtctg  300
cagtggggag gctatatgtg tatgggggga aaaggggggtg tatggaaact gtaccttcca  360

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cttaattttg ctgtgaacct aaaactgctc taaaaaatag tctattttta aaaggcacat 420
gattcaatta cattttccat caataacaac tgagaggctt gggaatgatg accggtgtgg 480
actggcccgg cccattacc tgggtgcacgt ctttctgnat ccgnatcgtg gtgctggccc 540
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<210> 6390

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6390

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attcagcaaa gcgtactttt tttcccaaaa cataaaatca ttcagcaaaa aaacaaccaa 180
agaacaataa caaaaaaaca gtgcacatgc cacaaagcaa accaaacata gctcagtttt 240
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acttaatatg cacacccaaa tattctaagt gcttatttag ggagtatctt tatttggaat 360
aaagaatttc gagttataaa actgatggct tataagaatg cagcttacta aattggnctt 420
cgttcttaca aactggagta atcttgcctt tgagagtiga aaatacatat tcatctacat 480
ttctgcagcg agtgggncca cagttaattt tcatcactgg tgggggttgg caanaatgnt 540
cactcttttt ctgntgctgg ggctggggct tcntgactt gg 582

<210> 6391

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6391

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caagcaacag caattactgc ttaagtgttg cctctagata ggagcggcag atagcaggaa 120
 actgtattat ctccaaaaca aactgcaagc cccccacccc cccgaacgtc tgtaatcaaa 180
 tcgccatctc cccaaagtct gattggcagg gcagatcacc ctaagataat gaatttatta 240
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 tgtaaattaa caagaaaaaa tggtttaaaa agaaaccacc ctagaccaa atgttctgct 360
 cctctcgctt tccttcttgt tattgcttta aatctttttc aaaaataatt gttctacaaa 420
 catattttct aaaatagttt cccaaagatt aaatatccct ttccaacccg cagtatatatt 480
 ttaaaaaagc aatccttcta tgtaatcatg aaggattgta aatgggggag aaatattttc 540
 cttcctttta aaaactgggt natttttctt ttan 575

<210> 6392

<211> 476

<212> DNA

<213> Homo sapiens

<400> 6392

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 agacaccaa tgtctctgnc tgccgnggga taaatatitaa aagtcagcaa taaaaacacg 120
 tggctccaag ataatacatg ttgccaaaga gtcatgcatg ccctcctgat gggctctcaa 180
 cacacgcacg gacatgggaa cacacgcaga gcaacacgca gtgagacttc tgggaaggct 240
 ttcccacagt gacacagaaa aatgtctcac gtagatctgg gctgagtccc caccacaaacc 300
 ttgagctccc ctcccctccc caacagggcc tagatcctct gggttctcca tgcccctct 360
 gccccctacc ttgccagtgc ctnacaggct gggcaccctc ctgagagcat ctgacacca 420
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<210> 6393

<211> 566

<212> DNA

<213> Homo sapiens

<400> 6393

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tttttttttt ttttttagtan anacatgggt tcaactatgtt gccaggcca gtctcaacct 180
cctgactgaa gcaatcctec tgcctcagcc tcccaaagtg ctaggattac agatacgagc 240
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acagagatga atgagcaaca gacatataag ttaggattta tttcagggtta cctgaaccac 360
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gtgtactggg acttnaggct agaacaattg ggctttctat cctctggtcc tttcagaaac 480
aaaaggggaa aaaacnggnt tnaatcctca ttgctggaa attccgggcn ctncagnatt 540
aggataacac ctncaaagtt tttctt 566

<210> 6394

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6394

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tgcagcctca acctcctggt ctacaggcaat cctcccaccc aagcctcctg agtagctggg 120
actacaggcg gcaccaccat gcctggctaa ttttttaaaa attatttgtg gagacggttt 180
cactatgttg ccaggctgg tcttgaactc ccgagctcca agtgatcctc ccacctcggc 240
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tggagtgggt cacaagggcg ccgtantgcc ccaccagga actcacgtct ctcccgtact 420
gctcaaaaaga tacgtagcgg atgcccttgc caaagttggt gaaanacgtg ggagaacctg 480
tcngcaagcc ctttttagtc cacttgaagg accgggtcaa ggtgaaggct tnaaaacttt 540
gaccactttc cttttnatan acattccaga angnggncc cg 582

<210> 6395

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6395

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ttaaattttc acaagattga cattattgct taaagtgcct gaattgggta catTTTaaaa  120
aattaaggta cagattattt taaataaaaa ctacaatatt ttagcaaca aaataatagg  180
aatgccacac aaatacagta actatttttg ttatacagaa atggaagcca aaaataaatt  240
aatgtaatac tggaaaacag aaatttaatt aggcagaaaa gtaggaaata atTTTccctg  300
acccatgccca cttacatgag ttcattacaa tagtgctgat aaatgccttg accatataat  360
agcaaacaag ggcaaaacat ttagtgcaca atattttaat acacgtgaat atacaaagtt  420
gatcaaaatg caatgttgaa gggataaaat ccatctgnaa taaagctaca ctncaatatc  480
taaaatagcc ctaagctcca tttggacntt ngatcatatt taggctgncc ntgaaantaa  540
gggt                                         544
    
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<210> 6396

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6396

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ctgcataaaa tactgtttat tttgtccttt aggaagacta aagtagtcca gctcccctac   60
agcccagtct tgccccacc ctgcactctg tcgccttagt tcctggggac caagcaactg  120
gcatttctca agcagaccct ctccctgttg ctccctttca gtccctggag tctggcttcc  180
caaaagccaa agctggagga gagctcattg ctgaggaagc agggttggag cctgaggaga  240
tgagaggggc ctggaccctt cgctggatcc cagaggccca ggggcagaga tgctgggaca  300
    
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gggctctagg ggaccactgg gtgactcttg aggggctaga agcagggctg ggtgactttt 360
gctacggtgg gctgcaacac tgtctggctt ctcaaagcgc ttgccgcaga attcacaggg 420
gaagcgcaag gcagccaccg nctctgcatg cttgcgctgg cgccagttca gggaaacctt 480
ntggcggcag gtaaaccgcg atatctcaca ctgnaagggg tttttttcag ggggaaacct 540
ntnggatga caaggttctt gtantgcgna agaccggccc t 581

<210> 6397

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6397

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tgcagcctcg acctcccagg cccaagcaat cctccacct cagcctcccc agcagctggg 120
accacagatg tgcaccatca caccagcta atttttgtat tttttgtaga gatgggggtt 180
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tccgaaagtg cagtgattac aagtgtgagc tgccatggct ggccaaggct gtctttttaa 300
aagctaaaga tgtgttggtt caagaccagt ctgagcaaca tggcgagacc tcatttctac 360
taaaaagaaa aaaaaaatca gctggctgtg gtggccatgc ctgtagtcat ccagccactt 420
gaaaggctga agtgggagga tcgcttgaac ccanaanggt gaagcttcag ngaaccctga 480
ttngnccctg gacttcggnc tgggtgacaa tgagaaccg gtttaaaaag ccttgnangg 540
gtgg 544

<210> 6398

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6398

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 tgttttttta aaaggatttt tatactatat taaaaaacca caaaataaaa aagggatcaa 180
 tcaacatata tcttagaagt ccttccaaga gtcttggtat gcaacagcca tggaggctgt 240
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 tgtagaaaca tgcttttacc acccgctccac caaaatacct cccattcaag tcaacaaccg 420
 ctttaattgc tgattcaact ctctcaaatt ctaaaaatat ccgnactgnt tcatcatcan 480
 gggcccanga atcttggaag aaaatganaa cctgatgagt naaaggcttt tgaaatgcct 540
 tggaaggagt ttcccnttt 559

<210> 6399

<211> 522

<212> DNA

<213> Homo sapiens

<400> 6399

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 caggcacctg ccaccacacc cgaccaattt tttgtatttt tagtagagac agggtttcac 180
 ggtgtgagcc aggatgggtct cgatctccag acctcgtgat ccaccacact cggctctcca 240
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 cactctncca gaagtcaggt tttaacttta gcctctagtt ctggaaagtt tctggcctat 420
 catagatcac agatctatca tagntcgnat ttttaggctg nccagtgggc caanggcccc 480
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<210> 6400

<211> 570

<212> DNA

<213> Homo sapiens

<400> 6400

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ttatccagca acacggagat aanagtctgt ccaacccgac aagttccaga cccaccctg 120
ccctcacatc aggctcttcc ggtactgact gtgcgggggtg gtctgtctga ggtgggagtc 180
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cagctgctct gactcanaat ccggcggaga ccgagggggg tccttggcct ttcgcttccc 360
atctcccaag tccctgaacc tctgccagaa gctcctgagt ctctccaag tttccttget 420
accaggctct ggatccggga caagntgccc ggggttgggga gggcaagggt tnggggggtcc 480
taaccgcac tggaagggtc cggccaangc anattccent tanaaaggac tcctcaggag 540
gcccaanggcc ttttttgggg ggaaattttt 570
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<210> 6401

<211> 519

<212> DNA

<213> Homo sapiens

<400> 6401

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atcccatttt agtcatgatt ttttgattcc tggggctgta tagggaggct gggatagtaa 120
tctctgcatg ccattgttgt aacaagtctc ggccccataa attgattgga atagaagtga 180
tcataggctg aaccgtactt tcttgattat cagatcctag acaatgtaaa atcatggcac 240
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ctgattagcc caataagtgg cttttcctgc agggttggta cttcaaacc tccggtcttt 420
ccgtttggtt tccccaattt aacataaggc aaaaccngna ntgggcaatc tattcncngg 480
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aatggccttc anggaacant ggactgaccc tactggaat

519

<210> 6402

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6402

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 atgactgtat atcatatgtc aagtctatgt tgacactttc tgcattttct actctccgaa 180
 aaattatecc aaggaaccac attgatacgt aattgttgct tttatgatgt tccttattcc 240
 ctgggaatga ctggggattc acatgggcaa gagtaataaa ttcattccgt tccaagtttc 300
 caacaagtac acggatttta gattctacta atccaacca ctctagatgg ttttcttctg 360
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 caagtagttt ggaccaatct gactttcctt gaagaatttc atctgtgact gcaagacctt 480
 gttaaactct ctaccattac tggtcgagtt gatgtggacc cttttncgag aaatctgttg 540
 ngggaagcaa ggggtgatatg gcatganatg atcctattga 580

<210> 6403

<211> 532

<212> DNA

<213> Homo sapiens

<400> 6403

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 aagtctgta gagtatcttt catcagtaca tgaaaacttc caaactgcat gatcttctgc 120
 caggcaggac tgggtgctat tcgctggttt gaggtcgaat ccatttcaag gcatgtcgtg 180
 gtgggacatt aatgggtggga tggtagaatg tgcagtcagg tcttgtacat tgagtgttaa 240

acctacaatg ttttggatga tagaaggac attccatctt cttacaagca gggaagtaac 300
 ggcagagctg actactggaa ggtggtgctg gtggtgcaac tggttttgga gacagtactg 360
 gaattcttct actcacatga gtgaaggac aatctggttt aatacacttt gcatcatatt 420
 taccatttgg gtgaacaaac caacattttt cagcaaattt acaattgggg aangcttttc 480
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<210> 6404

<211> 547

<212> DNA

<213> Homo sapiens

<400> 6404

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 gtgcagaccc tgccacgaca gccagccgt ccaccacccg cctcatctct gccaatgtg 180
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 ctgcttcggg agacaggcag ggtgagggcc ctgttcgctt ttctctgaca anggttcaag 480
 ggcntgtgt ggcttgctgn ttccctgggt acccggaac tggtggnen taatggcctn 540
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<210> 6405

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6405

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ttaataccag agccattctg gagatgccat gtaagaaatc tggagttact ctaaattctc 180
ttcttagtgg tatcagaact ggggagaagg gtccaagcaa agtggtgcct ttgccagtgt 240
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ctccataacg anggnccctt gggnaatacc cttgctgac cttgaagatg aaggaagggn 540
cntgggncca aggaatgcca cagctttgga agcccaaaca gngttttg 588

<210> 6406

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6406

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cactctctgt caaaggatcc agcgctggta atatagattg ctgaaggcct ttgccttctt 180
tccaccaggc aacagaattt gngtccccgt cactgcttct tcttctgtga aaaatatagc 240
ttcagtttgg tccacgaata cagaagttgg tcagagatat tttctttcaa gcacacaaca 300
agcaaaactt ggccaatata caccaatcaa atgcacttcc tttttccctg ggagctcctg 360
ccacatctca aaaacaaaaa acaaaaaggg atcacagatc tctttgaaaa tcagtggccc 420
ctttagactt tctgngccca aaaagttagt ctttcacctc agcaccagn tttccctagt 480
taatctgaag ntcatgggc ctatgatggn cccaaattnc tggagcttca ganacccac 540
gtnagaaatn ctagggg 557

<210> 6407

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6407

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ttacaggcat gcaccaccag gccagctaa tttttgtatt tttattagag acagggtttc   180
accatggtgg tcaggctagt ctggaactcc tgacctcatg tgattcccc cgcctcagcc   240
tcccaaagtg ctgggattcc ttgctaggca ggaccaagca gagattggag aagggggctg   300
ggttgggtgct gaggaacgaa aggggtggagg ccaatagctc ttgacctctt cctgtgggtc   360
aagaaaagga agggctgaat tgtcatcaaa aaggccaaag aagtaaacag aggaaaccag   420
ccaaaaaaca gaaacttagt accgtgttca agcaggacac agcatncaa gattancaat   480
ctctgacat cgcaacccgg gagacagaga acagatggcc cattcaggnc ttttttcta   540
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<210> 6408

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6408

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gggctggagg agagcttggg ggaggtatgg agaatgagaa aaacactttc aaaatgaagt   180
tctgtgcaaa aacttctggg aaggagtga aggacaagag aaaagctcca aaggggctgt   240
ggggcgcana tggccgggct ggggggtgca gagggctggg ctggggccct gtgtcctcaa   300
ccactcctga gaacacggac ggtcaggaat gaggggctca gaccccggtt tggtagaggg   360
gaggtgacag ggagggaagg agcctgctgg agggaaacct ggctgggagg atgggtctgg   420

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gcccaggctg gggcctaagg agggggaaga acagatgaag cggctgatgc cttcaatgac 480
 ctgctnttan aatccacctc cttttntcgg ggttcttgct cangaaaatg gggggacttt 540
 ctgggctttc tttggggacc ccagcattgg cnn 573

<210> 6409

<211> 503

<212> DNA

<213> Homo sapiens

<400> 6409

gagacagagt ctcactcttt tcacccatgc tggagggcaa tgggtgtggtc ttggctcatt 60
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 gtttttgacc gattctggct ctgtgccagg ctggagtga gnggtgcat ctcagctcat 240
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 caccatgttg gccaggatgg tcttgatctc ttgagcttgt ccaggatggg cttgatctct 420
 tgagcttgng atccgcccac ctgggcctnt caaagtgctg ggattacang tntgagccac 480
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<210> 6410

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6410

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 aagacathtt ataaaatgac tactacctgg gattacaaac gcaataattg tatacattct 180

cctataacttg ttggctagcg gtggttaatg cctctctaag tattgcctac cgcaagaagc 240
 tacaacttcc ctacttaaaa aggcccttaa ttactgtgct ggattctctt ttctacaatg 300
 tcctgcaaac tatcaagctc acaatggttt ctgttcagca gtttatttct tctctgaaat 360
 atcctgttga aatccataat cattttgaca aaaccacac agaaagcaag ccaataattt 420
 ccctggcatt tggtaaagtc tgcagaacca tcataaaagc accacatgta aaaataatta 480
 ttcaatgnat taagcgctgg cntggacca ntctctgggtg taagcccttt acatggntaa 540
 atcattnaat ttccacanc ntttgaagg g 571

<210> 6411

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6411

ccttccacta tttgattcct gggagcagtt ttctcagatt cgcatattgga tcccaacctt 60
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 ctccccacct tcctgggtcc cctctggggt ccagccatg ctccaggggc gtccctccag 180
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 cgatctcact caggctgcgt gctgcatgga ttttggactt actctgcttt ctgtccagat 360
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 accacgtgtg cactgcaatg ccgctgtgcc caaacgtcct ccttgtcact gaacctgcg 480
 tgggtcatga acttncacgg aaaacttctt ttctctgaag acangttttc caactgcttc 540
 attggaanac tttcttggtt tcactttata anggg 575

<210> 6412

<211> 584

<212> DNA

<213> Homo sapiens

<400> 6412

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 gagccaggag gctcagggtcc gacagcaggg gccaggctgc tcacttcttg gagagcttga 120
 cttgcttggtg cttgggggggt gccacttga ggcagacgga gtccactgtg atgggtgggt 180
 tcttatactg ggcacttttg aggtgctcct ccaccagctt ggggtgtgaca cagatcacgt 240
 gctggccctt ccagtacttg accatattga gggattgcag ggtactgatg atgtcatttt 300
 gggtgatact ggtcatcttg ctgaggtcct tgatggacag tgtgccccgg aagtcccgca 360
 ggatctccag cagcaccag gaccagtagc tgcggtagct gagcttgccc aggtcagaca 420
 gcggcttctc cggggagccc gactgtgctc tccagcttgg agagtcata actgaaagcc 480
 atgangaact tcccgtaac cccggcgttg gtaggggggc aaggtcagga tgcangnccc 540
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<210> 6413

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6413

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 ggacatacca ttacagagag gaggaagaga aaggatggcg cggggggcgaggaggaaagaga 180
 gcacctgcca aaaatcccac actttccact tntcagctat cactcaatca tttttctgga 240
 tagggttaac agctagaaat ggtttaaggg caacatccag gtagtttgct tggaanatca 300
 gggagatgaa gagttggaga gaatgtgggt gtagcatttt gaaggattct ccagcttgaa 360
 cctgttgcca naaccctttt catggtgaac tgggagtcag gaagcttaat cctggtctca 420
 gctcagccat gaacttgctg tgtgactttg ggtgaatcat tttccctctg ngatcctctt 480
 tcctctgntg taaaacaatc aagtggcaa gttctccatg ggtttttagcc cttttgcaat 540
 gccaacctgt ntggcaacct nggcttaacc aaga 574

<210> 6414

<211> 583

<212> DNA

<213> Homo sapiens

<400> 6414

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atatttactg catgtggaaa aatatagttt agtatgcac ccctgggtgtt ttctaagatg   60
tagtttttga aaaatttttg aaatgtatta catttgtagt tttctccga tataaattcc  120
ctgatgttga acgaagtttg gagcaactgc ttcggataca aaatgtgtac aataagatct  180
gtgatacaag taaggcaggc actacaaccc tctttatgtt tctaattgtt gtcttcaaaa  240
taaaaactct ttttttactt taaaggctta tattggctgg gaacagtggc tcacacctgt  300
tattccagca ctttgggagg cagaggtgta tggatcattt caagtcagga gttcgagatg  360
agcctggcca acacagtaaa accctgtctc tactaaaaaa tacaaaactt agcccgagcg  420
tgatggcaca tgcctgtagt cccagctatt ctggaggccc aggcaggaga attgcttgaa  480
cctggaaggc anaggttaca gtaaaccaag aattgcacca gtgcacttca ncctgggana  540
agagttttcc gaatctcant taaaaaaaaa ccaccaaacc ant                        583
    
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<210> 6415

<211> 586

<212> DNA

<213> Homo sapiens

<400> 6415

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atcatcgaaa taatttattt accactagag caccacaaaa acagacatac atcgtgttaa   60
aatacagcgt aattggatcat caaaatacaa aacagctaata cttatatcc attttttaac  120
catgccaacg atcaaattgt actgctgatt aacacaaaaa taattgctgc ccacttgcac  180
actagcactt cacccttcc tttccacctc cccccctc ccatggcaat atttacttat  240
gggaaataaa gaccttacag aacccccaaa ttaaaaaaaaa aaaacagatt caagagatct  300
    
```

taaaatagag catttaaaat attatcagtg cattcatgag gaaagacaaa ataatacaaaa 360
 acaaaatgtc atcctatctg agaggaaaat gtctgcagaa ataaaagtga ttacacata 420
 atagaaaagt ggaagacaaa aaaataatca acacacactc aaatctggga ttgggttaca 480
 tncacacaag ggctgnntac tattatggca tncatctct tgcttttcca gttttaaact 540
 tgcaaatcca attcttaatt aatgggnagg aaattccaaa aggaag 586

<210> 6416

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6416

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 aaacaagtga aactccaaca aataagtctt ctccaacagc gagaaaaact gtacagttac 120
 tcaaagctga ttctgtgaga agagggctgc atacttgtgc aaacggaggc tcttgagcca 180
 tgagggcaca tctttcatgc cactgccatc ctcttgaag gtgttccggc tggagccctg 240
 ctctctgtgc tgctcactgc cagaggaggc cacgctgctc tggggcgaga gaggtgcgtg 300
 atcgggcgtg gtaaaagcag cccgggcccc aagctcctct ggactcggcc actcaccagg 360
 gacctggggg cttgtaggga tgagtacat ggagcgcttc agtgggctag ggtggatttg 420
 gcaggggaaa cctgtgtttg cattgctccc aatactgttg atggctgcng gcacttganc 480
 tggatggtgg aaagggcccg tgtccanttt ccggggngnt ttgccttgcc agcctgacct 540
 tgcttccan ggcctaactt ttgangggcc cccc 574

<210> 6417

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6417

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 caacctccac cttctggttt caagcaattc tcctacctca gcctcccgag tagctgggat 120
 tacaggcgcg tgccaccacg cccagctaata ttttgaattt ttagtagaga cagggtttca 180
 ccacattggc tgggctggc tcgaactcct ggccttgtgt tccacttgcc tcagcccccc 240
 aaaatgctag gattacaggc gtaagccatt gcacccagcc aaggtggctc ttcttaaacc 300
 ttggttttagt gtcacctaca gatgaaaggt gaaggaggtg agtgcagaaa ggagaggag 360
 cacagaaagg aaatggggag agaattggagg aagataagga aagacaggaa aggaggagg 420
 aaaagggaag aagatgaaga tagagcgtgc tgtatgangg caaaggtggc anaagaaaca 480
 ccangaaggt ggagaattca cttctntnta anangagctg gcttttccaa atga 534

<210> 6418

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6418

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 gcaacccccg cctctggggg tcaagcaatt ctctgcctc agcctccga gtagctggga 120
 ttacaggtgc ctgccatcac acccggccaa tttttgtatt ttagtagag acagggtttc 180
 accatgttgc caggctagtc tcgaactcct gacctcaagt gatctgcctg ccttggcctc 240
 ccaaagtcct gggattacag gcatgagcca ctgcgcctgg ccatgctctt ttttaactctt 300
 atcaacacca agcccgtac aactcacct agactgcctc tgcctctacc ctcttgcctt 360
 agcacctttt catcatctag tggtaatccc ctgaaatgct tcccagtgcc tgccaaatca 420
 tcttatcttg cctcaaatec caagtctggc ccttttatct catattttct gcttccctga 480
 accagttcta agagccccct tcaagtcttc catctgncct cntatctacc tatgccccan 540
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<210> 6419

<211> 582

<212> DNA

<213> Homo sapiens

<400> 6419

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tcccttgata gctgtattcc taggtatttt attctctctg tagcaattgt gaatgggagt 120
tcattcatga tttggctctc tgcttgtctg ttgctggtat ataggaatgc ttgtgatttt 180
tgaacattga ttttgtatcc tcagactttc ctgaatttgt ttatcagctt aagaaggctt 240
tggcctgaga tgatgggggtt ttcttgatat aggatcatgc catctgcaaa cagaggcagg 300
ttgacttccc ctcttcctat ttgaatagct tttatttctt tctcttgcct gactgtcctg 360
gccagaactt ccaatactat gttgaatagg agtgatgaga gagggcatcc ttgttttgtg 420
ctggttttca aggggaatat ttccagcttt tgcccattct gtatgatatt gctgtgggct 480
tgtcataaat gcctantaat tttgaggatg tctttcaata cctaagttta attgaaaagt 540
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<210> 6420

<211> 468

<212> DNA

<213> Homo sapiens

<400> 6420

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gaatgcgcag gtcgtggtat ttatttctat cgctctaaag agtattgttt caggaaaaac 60
tctgcaagcg gtgtttttcc tctgttctca caccagcaca acaatcacca acacagaaaa 120
gggccttctgt gaccaaagtgt gtgagggttt ttccgccaca caccaagcag tgaacaccag 180
ctgggtgttc tccaattcaa tgccagcact atagaccag agatagtatc agatctcaca 240
gctcagttcc caagactgct gcccccaact cccagacgt cagtcgcaag tccgggcctc 300
tggaacttga gagcaaccag cttcaagttg gggttctcac aactccctct ttgagatcgg 360
tgtttttttt ttttttttcc agatggaatc tcgctcttgt tgccccccag tggngngaatt 420
ggcncaacct nggntcaccg naacctntgc tcccaggttc aagcaatt 468
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<210> 6421

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6421

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caagctctgc ctcccaagtt cacggtgtcc tcctacctca gcctcctgaa tagctgggac  120
tacaggtgcc cgccaccacg cccgtcttat tttttgtatt tttagtagcg atagggtttc  180
accgtgttag ccaggatggt ctcaatctct tgacattgtg atccgcctgc ctcagcctcc  240
caaagtgctg ggattatagg cgcgagccac cgcacccggc caatatactt ttacttctta  300
taagaaatga gtaactttat taattctacc aacagataac attcttcctc tcagagagta  360
atatgcaatc atttcctaac cttatittat tgcgctatat tttaaatata ataaacgtgt  420
caaaaatgtg gtttcgtact ttttataaat tgatatattt acctaattac actaaatcta  480
agaaaatcta tgggcttatt caaacttctc ttctcttctt cagangcaaa cctgnataat  540
tccgtggggt ggttggttgg tttnaanacc aaa                               573
    
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<210> 6422

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6422

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cttctttttt ttttttcttc tagcatacct ctggtggcag gaaaggttga ttgccacatt   60
agggaataat caaagaatct atattagtca aaacaatctt gaaaaagata acttacatca  120
cctgatttca agactactat aaaactacca tgatcaagac atttctgctc atcaaaagac  180
atcactaagg aaaagaaaat gaataagcaa gacatgcctt tgaggaaaaa tatctgcaat  240
ataggatatgt atatgtgaca aaggatttct agtgataaaa tataaaaatg ccctatttgg  300
    
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aactgttgat atgaataaca aaaataatga gatttaagaa catgtaaaag attggaacag 360
tcaatttaca aaagaaaata tgtgactggc taacaagcaa atgaaaagtt ctcaacatca 420
gtactcatca gggaaatgca actaacatct tacatctact aacatgacta aaatcaaagt 480
gagaacaatn tcagatggta gtgagcnttg aagagccact ngnactttca taccttgntg 540
ccgggggtgt aaaatgggtgc catcgttcan aaactcng 578

<210> 6423

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6423

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tactgattct ttgttttgct gttatctttg ttgaatttta gtatcacagt aacaatgata 120
gttaccaatt tgttataata aaatgagtta agaagtattc tcattttttt ttcttaaatgg 180
aagactttac ataagattca caatatttct ttcttgaagt ttgataaaat ttattagtgt 240
ggccatttag gcttcacatt gtcttgggtg aataattttt aattgcaaat tcagcttctc 300
taatcaatat agggatacta aaattttcta ttgctcctgg gtaataattt gtgttttcca 360
aagaatttat ttttttcaac taagttgtct aatttactgg cttagagctg tttatgatat 420
tctcttataa ggccttttaa tgtccatatt atccgcagtg atgtctccta ttttattaaa 480
tatactggta aatagtgctt tctctcttat tctgggatag tctaantaga gctttatctt 540
aactaacttt ncaagaactc ttttagttca tatt 574

<210> 6424

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6424

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aaccataaga tctagaatca gaaggagttg aggggtgtaa ggtctaaaac cagagaaatg 120
tataaggcaa agtctaaaat cagaagatat ttgaaggctg aattctagac ccagggtaat 180
ttggagtcag atcttgagtg aggaggagct ggaaatgatg aagtctagag ccaagggaac 240
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tctggttcta gaagaactgg ttattataag ataaggacag ggtcgggcac ggtggcttat 480
gcctgtaatc ccacactttg ggangctnaa gccggtggat catcttgagg ccagagtcaa 540
gaccagnctt tcnaattggc aaaaccccggt ttttctaa 578

<210> 6425

<211> 569

<212> DNA

<213> Homo sapiens

<400> 6425

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agttctatag atgaggccag atcatttttg agaattaaga taagagtggg aacttgtaa 120
aacaaaaatg aaaataaaac ccacctact cctgtatctc tccctgatta gacattaaag 180
aggatgaatca ctgcctctgg ctgcttcagc cttccaggaa tgaagagcca tccaccttgc 240
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ctgatccagt ttctgaagct ttaggctgat tatcaaaaat cttatgttca cttcttcctt 420
caacaaatta acatgtgggt aaaaaaaaaat accaccatta gcccatgctg ctttaagtta 480
tttcattgggt ggacaagaat aaaaaccagc ctttacactn tgaccncatt tggattaaag 540
gttaccaaat tccacnttag actntgggg 569

<210> 6426

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6426

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agtatatgtc acgcagcaat ttatcaaaag cttttgttgt gaaaacactt ttcttaaata   60
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ataatcgggt taccaaaagg acgccttcca atttttcttt ctattcattt tgatgttttg  180
ttcttttcaa aacatittct ctcattacat tcattactaa aggccttact ttaaatacat  240
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gtccaaacaa cagcacaaaa tcaacctagt acatgtaaca tagtgaaatg agtccacgtt  420
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cacttgtcaa agcagcttct cantgggtgtt gggcatctgg ggatttcttc ttgggcttct  540
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<210> 6427

<211> 578

<212> DNA

<213> Homo sapiens

<400> 6427

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cacgtgtaat tagaaaattc atttgaacaa agaagaaaaa ttgttattat gggaacagtg  180
gcatgtaact gtcagcacia tcaaatcata caatagcaca gtgatcaatt agaactagtc  240
tcaagtgaag aataaaagcc agtttaactg tgtgtctggt cactttgttt ctcttaattg  300
ttgcctataa acaaaagtat ttggaagta atttaaatcc acttaattct tttaaaaata  360
atattgtaat ttgttttgtt ttaatctgat tactaaccat ctggtcgttt tgctatttct  420

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gactttaact tatgaacgcc ttaacatddd ctttatatca ggcacatatt aacttactaa 480
 agatatttat tattaaatac taaataattc aatgtccaaa ctgacttaac anntaatgga 540
 aaccaacat tcatttcatt cctttgnttt aatttcng 578

<210> 6428

<211> 572

<212> DNA

<213> Homo sapiens

<400> 6428

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 aggaaatgca cattcttaaa aagaaacaaa tattatcacc ccaaccagtc cgaactccat 180
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 gatgaggtta tactggatta aggtgggccc caaatccaat gactcaagtc ctcataagaa 360
 gtaaagatca gactgggcac ggtggctcac acttataatc ccagcacttg ggaggccgag 420
 gcaggtggat catgagccca ggagttcgag accagcctga caacatgaca aagtcctgtc 480
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 taggaggttt gattggaaaa acnctaanc gg 572

<210> 6429

<211> 549

<212> DNA

<213> Homo sapiens

<400> 6429

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ctcattcttc tgcattgtaa agttcaaagg ctactataaa ggacgtatct taagaaatcc 180
 ttccttcttg aataatgtct gccccttgca attttcaaag tactttaaga tcatgagatc 240
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 cttcaattaa cattccattt aacaaatatt tgtgaatacc aattctgtgc caggttagac 360
 caagaggact caaagaagag gaagaaatcc ttgtcttcaa caggtctggt cagctctgaa 420
 gattccctga aatgtgacat gtaccgtgac tgttgcatc tggagtagcc actacactgg 480
 nntaaatcnc aaattgggga ggctcttcta aggagtncca cagnatttca ccaaggngat 540
 cccggntaa 549

<210> 6430

<211> 534

<212> DNA

<213> Homo sapiens

<400> 6430

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 caataaaaga tatttgcttc atgctttggg catntatcat agtngcccaa aagactntgt 180
 ccagtaaaca taactgtcac agtactgaag cgcaaactta caaaattgnc tttgngttac 240
 cacaacacac acagtnttta gtcagctgac tattcatgtt gtttgaaaag catgaaaatn 300
 caggttttta gcatgcncac ccagttggaa aaggacttgc tcctccggaa acaccattca 360
 ttcgcttttg canagctgag agcacctgtg catgtgaaca agcaggtggg tatctcactg 420
 gtttctgcag tcatcacttt ccttgatagg taagttttga tnccanccag gggaaaagtc 480
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<210> 6431

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6431

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 tggataaca tcaggagctt taaatcccaa aaatgtgggg ttgctcatct tggcccagta 180
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 aacttgactt gcgtagcttg tgtanagggg attcaaagtc tncaaatnga agtgtgaaca 480
 ttaattcttc caacccatgg tcttgagctg atccaaccta tggctggatc tgctttgcaa 540
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<210> 6432

<211> 525

<212> DNA

<213> Homo sapiens

<400> 6432

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 gattacaggc acccaccatc catgcctgac taatttttg tatatttacc cgaaacgagg 180
 tttaccatg taggccaggc tggctcga ctcctggcca caggtgatcc atccccctca 240
 gactcccaa atgttgggat tacaagcgtg agccaccgtg cccggcctta aacatgcaaa 300
 tctgattatc tctctcccct tcttaaaaat gttccttttt tccattgccc ttaggtaata 360
 ggcccaaacc cacaccttgt gtataggtcc agaagacctt caggcctacc ccagacctt 420
 cctggccctn agccacactc ctgccttgca gttcctntga catgaatgca atcntttctg 480
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<210> 6433

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6433

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tattaaagat tacctgcggc agcattcttt tgttggaact tggttaaata catgttcatt  180
cctttcttaa agtccttata cccaatgtag tcatgcagca ttcggatgac agatgcacct  240
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tcaataggat ggctgttata taaggcgtca agctcctggg cacgggtgta atcagcagaa  360
acaaactgag tccaaatatc atactctggg aagcagtggc ctacacacag atattcaatc  420
caggatgcaa aaccttcatt taaccaaaga tgagtccacc attccatagt ancaagattt  480
ccaaaccatt gatnggcaaa gtcattgtccc acaancngga gcanccactt ggcgggatga  540
agaacaggaa tttttggatc aataagcaat gcanctccta tgttnaaaa               589

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<210> 6434

<211> 593

<212> DNA

<213> Homo sapiens

<400> 6434

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gctcactgca agctctgcct cctgggttca caccattctc ctgcctcagc ctcccaagta  120
gctgagacta caggcgccctg gctaattttc tgtattttta gtagagacag ggtttcaccg  180
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gtgctgggat tacaggcatg agccaccacg cctggcccaa ctttactgat cttttataat  300
gatctttcta tgttacttat ttagggatat cttttttaga caatcaatat gatccaataa  360

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tttacattta gtgactcagc aacatacttg atctaaatta tgtcactctt tatgtgatgc 420
tatttggttg tatggcttca aacaaaaacc ttaattgggc ttcacttcta ataaagatga 480
attttacctt ttaatctaaa aatgacattg aaaactttaa ctttttaana attctnggaa 540
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<210> 6435

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6435

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aagcacacca ggtccacata gcagagaact tcacattatc aagtttctat ccaaagcttc 180
aaagaagcaa ataatatfff gaaagactat gtgataaaag gatcaatfff tagaaagttt 240
catgatctgt catggatcaa tagtttataa aggacactga aacttgatg ttgaggcaat 300
gtcaaattgc cccaagtffc taaatgctta ctcttcattt ctgtacttaa tgtggacttg 360
gatcaaatag ggcatgaacc agcattggtc cgtggactgc attttgactc gtattggttt 420
aaagaagttg tcgtttactc ctcgaggtag tctcagatct aattttctct tggattaata 480
tgacaactaa tacttgaagc acttagctta ctactagagg aatctatcta ctgggggatg 540
ccttatggnc ctaactffta tcaaattfff aagnnttgat aaaaancn 588

<210> 6436

<211> 598

<212> DNA

<213> Homo sapiens

<400> 6436

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tattattgct aatactatgg aggggctcag agatgtgagg aataagacaa agctgcttta 120
 tttggtgaat ggcagtcatt agtgactttt aaaagagcag cttggtagaa tgtagggagg 180
 ttgggttatt ttctttttta cagatnctat ttattaggca ctatataaga ttaaaagaga 240
 ctttaacacc tcttttaaaa aaaggcttta tctctttcaa tgcttacact gactctttta 300
 acaccctttt tatagatgaa aagtgcnatt gagagagggt aagtgacttg ttcaagccct 360
 tgtataaatt aagtatggac acaggattta acccagttgt gtctgacccct aaagcttatt 420
 attttaatga gttgcctcct ctctcattca tggaagccag aatgcaagtg gtttaaggagt 480
 aataaagaag gtgaatggaa ccnggtatag aggactctta aggacagggt ttggccaaaa 540
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<210> 6437

<211> 589

<212> DNA

<213> Homo sapiens

<400> 6437

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 catgggttaa ctcaatcttc acaataatcc tttgaggtag atagtattat caacctactc 180
 cgtatgaaga gactaaaatt caaagggtt aagcaacttg cctaaaataa atgttactag 240
 gcggcagagt ctggataaga aactacaat ttattaatct attctctgtc tatggatgtt 300
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 cttatggtat atatgacaaa aagtttctct agaagacaaa gaatagaaat actgggtcac 420
 aggatataca tatgttccag ttctcataat gaaaatgatt tttgangtgg tttgaacaat 480
 tcatgtnttc acaatcgggg ctccatattc ttaccaagac taggactggc aactgggtca 540
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<210> 6438

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6438

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gggttttaaaa ataaaagcac ggaccaatga ggtgggaaag actgccaggc tggttctttt   60
acctaggatc tcagtaatac cagattccag attccctctc ggcctctaag gctctgaatc  120
caggttagag gtctgaaccc ctccccccgt ccccaaattg ggggcattta gttttttggt  180
tcataaatac tgtccaggca actcaaagaa gacaccaagg ttggactctg ttttctttcc  240
tgctcagttt tttgctgctc cagtgtatga attgagattt attttttaag gccctcctac  300
atttatcctg tgttgctcag aacgccgacg tttccactg atatctgtcc tatactttca  360
aaagaaggta tgatcttctg ggatcagatg aattgcttaa gtggttacag tttttgcaag  420
gggtttctaa ctgatgacag tggggtaaag tgggattcta ttggcctctt gggtncatt  480
gnatctgntt ctactatgca atttaaaant gcttngaacc tttccacgg gctaatttga  540
tnttnccaat tgg                                                    553

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<210> 6439

<211> 587

<212> DNA

<213> Homo sapiens

<400> 6439

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aactgagata aatgtagatt tacatatagt tgtagaaata atacagaatt atcccgtagta   60
ccccttacct agttaccccc aatggtaaca tcttgcaata ttataccaca atgtcacac  120
caggatattc agatagatgt catccactga tcttactcaa aattcactca ttttcatac  180
agtcctttga ttgtgtggta gtctgtgaa atttcatccc atctgtagtt ttcattgtaat  240
catcgccaca gtcaaggcac agaattgctt acttccatca ctataaggaa cccttggtgt  300
gcccttttat aaccacaccc acttctctcc tctctcccaa actccatctc taatccctgt  360
taaccactga tatgttccct acttacacaa ttttatcatt tcaagaaagt tacagatatt  420
gaatcacata gtatgtaacc ttttaggatt gngntttttc actcagcatt attccctgga  480

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gatcatccaa gttgtggacg aatgattggg tcntttaatg gttggggang tagncnttgg 540
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<210> 6440

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6440

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aaaaagcatg gattgcattt atatagtgtt tttttccaaa aatctgaaga aattatcaag 180
agcacttggc agagataact tgatgaaatc aggggaaaaa attgatgtcc aacttttaaa 240
tatacaaaaa ctigattgac attctacata attcaaattg tgtgcaagat gttctcaata 300
aacatttaca gactgtatcc ccacaccaat gtcagaaatt caaagctggt cctattactg 360
atgtgataca tcaacatcac aatgtcagct atcaaaaatc attttaaate tatgtttttc 420
caacaactcc agttccatca atgaaaataa ttttaaagga tatcaagctt ggaaaccata 480
aaatatttgg caagcnttgg ttggttggtt ngttggttct tctgnttggc ctttgaatct 540
anggaaagnc nccttantct cttcaggaaa a 571

<210> 6441

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6441

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actcctgcct cagcctccca catgagctac catacctggt aggacattat ttttaagctc 120
ccattaggtg gaaatcaaaa gacaaagctt ttagtaacag ttcttccata aactagctgt 180

gtaatcttag gcaagtcact ctgaatccca ggtacagttt tctaacttac aaaaatgact 240
 ggaaaaaatt atttctaaga ccctctccac cttaagttat tccactagtg caaaatttaa 300
 aaataaagac tcttatgggt tggatgtttg tccccccaa atctcatgtt gaaatgtgat 360
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 gaatagcttg ggccctccac atggtaaata atgagtctca ctgtagttca tgccaaactg 480
 ggtgggtaan agcctgccac ctcctttttt ttggttcng gtttcccata tgacttggnt 540
 ggtacctttt acctttcgcc atgctgga aaagt 575

<210> 6442

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6442

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 agtagagttg ccgcatatgg ttgtaaagat tatgcactgc aaaaccctag ggggtcattt 180
 ttattcaaag tgttttaaaa atgcgaacca aaaccgaaaa gctctagggg atgtcattca 240
 ctgcatgttg gtttggttg aatattactt tccagaattt tgaaggcatt ttctcatttc 300
 ttctagcttg caatgataat gttaaaaagc ctgacgtcac tgtgatcgtc ttcttttctt 360
 cttctttcaa tgtgtactgn tttcttcac tcccttcacc cacttccatg cttctctctc 420
 ctttttctcc acaaacttaa aaaaagattc tctttatctc tagcgttcca agatttcaca 480
 acaaggtaac ttggtgtggg cattttctca acttttcgca tggactctgg tgggactttc 540
 aatctggaag acttataatc ntncntctg ggn 573

<210> 6443

<211> 571

<212> DNA

<213> Homo sapiens

<400> 6443

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 gtaggtatac acagaaagac tgttttcttt ataacaaaaa atactataaa gaaagagata 180
 atggaaataa ggcctataat gaagacagaa tcactaacac tgcagaatt aactgataca 240
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 tttaaaaaca ctggctgaac aaaatagtgt ataaattaat gtaagaaagg cactggtagt 480
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<210> 6444

<211> 564

<212> DNA

<213> Homo sapiens

<400> 6444

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 agtgcaccc tatggttcac gtaacctaaa tccattitca ttatgacagg acccactatt 180
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 gtggcaggca gtactgatcc cacctatgaa acaggataat tgcatatcca ttctacagaa 300
 aagaaagctg aggcttagag aagttaaatt actitccag cttaaaaaaa gaatctacga 360
 aatgatatit ctaattcatt agtttagaggc ctggaatcaa ggtgccctta gcaatatatt 420
 tttggagagc aaagaatact attcccttgg ttttagagatg aagaactgag gctititgagt 480
 ggggtanggt tncataagaag ccacagctgn ttaatgnnca gcacatagaa tggctggcta 540
 caggccagac tntitititca naag 564

<210> 6445

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6445

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actacaggcg cccaccacca cgcctggcca attttttgta ttttttagt agagatgggg   180
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gaaagtcttc ccagataata tcctgaaatg ngttttccaa tttgggtcca ttcttccttg   480
gcacttttca gggaccctaa tcaatcgnag gtttggncct tttacatagn cccatanttt   540
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<210> 6446

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6446

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aaaaccaaaa gaacaacttt aataagcttt tacggcactg caattacagg aacatcgacc   60
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tacaagtaac agcaacacat tccatttcta ctgaagaaaa caaatgcat ttaactttca   180
ggttagaaaa cgtatcttct tactgcaatc tcaagtagca tttagaaagt ttagttttcc   240
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attggaaata atcacgagga atcaataggt ttaggctaac tgactgattg gttttatttc 360
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ggcangtgcc tgacttttgg aagcccgatg gccacacacg gnttgnggna atagtgggtg 540
cacggaantt na 552

<210> 6447

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6447

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aagggaagt actttattat tattttttcc agtgggaggg tttggtcagg cagggagcgg 180
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ggactgggtg ctnaaatgtg nggccaactt tttttcttcc cttttttttt ttttttttgg 540
naaacaanc cctnttt 552

<210> 6448

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6448

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 gccaatgtgt ttctgaatat gcacatgtat atgatatctt taacaatgta taaaataaat 180
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 gcattttatc ctttaattcat gtagcatttt ttaagttctg agagagcaat tccctctttt 480
 aaatcccaac tgntgntctt ttnccanttg aatggggggg ggnaatgggn caaaccttta 540
 atttggcggg caaaaaatan ggc 563

<210> 6449

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6449

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 cagacctctg ctctgggatt gggccaacc ctgtcctttg cagccatgtg gcgacctca 180
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 gcatgcccct gtggcctggg ggcatggcaa ggtccggctg gctcttggtg cgggcttngg 480
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<210> 6450

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6450

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tattgtccag tggggcgaat ggtggctgga actaaagaat tgctgtctgg tttctatcca 180
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cggcataaag gctcagagcc atgctaggaa ggattaactc gtaggctgac cactaacatc 300
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cccatacccc caaaataagg ctagctatct aattagttgg ctgcttttct ctttaatttt 420
agtgtttctg ttgataatgt gtaaagtgtt ggaaaatgct aagtagcttt tcacttagaa 480
cactgggtatt ttctctttta aggtttctan cctacattaa tattgcntaa gtaatcttat 540
tgctaaatcc caaagtaana aa 562
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<210> 6451

<211> 536

<212> DNA

<213> Homo sapiens

<400> 6451

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ntngcctnag cctcccagat agctgggact acaggcgccc gccaccacgc ctggctaatt 180
gtaagccttc tttttaaaca acacactaga cacctccttg ttgacccac tataagcttc 240
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agctactntc cacaacanat ggtgatgtct cattttctcg ngcttagact actaaccaaa 360
aaaaaagtcc taggaagctg gcttttagctt cccattcacc ttcctctatg ggtatgcctt 420
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tgngaacagt ttgttcaacc tcatccaaga catgagcatg gcccaatgna aaattntggc 480
ccanaaaaaat nggtggnttn agaacaaatt ttataattcc aatggctttn gggagg 536

<210> 6452

<211> 565

<212> DNA

<213> Homo sapiens

<400> 6452

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ctccgaagac tagaaacaga ttcccttaaa gctctctgng cctttatata tcctgaaaaa 180
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gttttctaaa atttataatg gatttaactc atgttaattt taaatgtcta tatagttcac 300
ttactagtat ttctcccat aagaaaaaca ccaaccacac caatataaaa tgtgagaaag 360
aatctgatat gctgctttaa aaaaatcttc ataaatatc cataatttcc catttttgta 420
aattataatc ttttcaacag acttattacc cagtaaccaa actttttact aggatcccca 480
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ggtcccttna aaggcttttn tggaa 565

<210> 6453

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6453

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 tgctggttgc antgctctct tgcagtangg ntaaggccac gacacttaag gcttttaagg 480
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<210> 6454

<211> 531

<212> DNA

<213> Homo sapiens

<400> 6454

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 aacgtggctg ggaacatcaa caccttggca tgcataaatg ttaagtcagg aaggccagcg 180
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 gaggtggana tttccagctt anaagttgtt aactcataca actccggatc cacacctggg 360
 attgaggtgc tgctgctaga gctactgtca tccacgggcc caaagaaatc aaggttcaga 420
 agagtggaa ctcctacca tctaaagggn tagtannggc nctgntactc antcaactgg 480
 ccgggtggtg taaactctgg aactgaccaa agtcntgggt catatctggg a 531

<210> 6455

<211> 557

<212> DNA

<213> Homo sapiens

<400> 6455

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 aatacacaaa gtaaccaacc ttcttctcct tcccaaggag gacagaagag aactcacagc 180
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 cttcacctnt caggttcaag cgattctcct gcctaacctt ccaagtagct gggattacan 480
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 ttggaaaggt tggcttg 557

<210> 6456

<211> 574

<212> DNA

<213> Homo sapiens

<400> 6456

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 ctgacataca taggcattca accaatattt gatctccaaa gcatgacat tcatgcatcc 180
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 gaatatataa ttccaataa gctcttcttt ttaaaggatga ttaacagttc tagtgttcaa 300
 tttcaaaatc aaaatgacat catatcaggt gtcattaaaa gacgaatgcc aaacatatt 360
 tgcctacaca ccactgcctt ttccctttct ttcattttct ctgccatag aaagccatgg 420
 gtttttttg agttttcacc atctctaaga gccctgaaca atttttaatc ctataaggct 480
 ttttacttca gttctgnac ctattaaaag cctgggtgtc nagactgaag atatcnctaa 540
 ctctctctat cttacnctt ttcnattctt cctg 574

<210> 6457

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6457

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tggaactaca ggtgcccgcc accacgcctg gctaattttt tgtattttta gtagagacgg  180
ggnttcaccg ngttagccag gatggtctcg atctcctgac ctcgtgatct gcccgcctcg  240
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ttattaacca accaggntaa taaattcttn tttttttttt tttggagacg gagtctcact  360
nttgtcacc caggctggagt gcanttgaca cgatcttggg tacatgcaat ctccgccttc  420
tggggctcaa agcgattctt ctgcttaacc tcttgagaag cctagggatt acaaggcttt  480
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<210> 6458

<211> 573

<212> DNA

<213> Homo sapiens

<400> 6458

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ttacacgcac acgccaccac gtccggctaa tttttctatt tttagcagag atggggtttc  180
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cctaataaaa tttatcttaa taagataata tgtaatatata agatagagga ctgatgcctg  300
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ttactccgta tctctttaga attaataata agtagggaga aatgaggaac aagatagggt 420
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 aggtcttacg ggctccntgan ggcttttttag aaacttttan acttccgagn ggaaaactgg 540
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<210> 6459

<211> 544

<212> DNA

<213> Homo sapiens

<400> 6459

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 gcagggcctt agggctgaga gccagaaaca ctgtcctttt ggagccatg gaagcgagga 180
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 gattctcaca acttcttcaa actcttttgt gcttcagaga aagccaggaa cacngggcaa 480
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<210> 6460

<211> 546

<212> DNA

<213> Homo sapiens

<400> 6460

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 gggagtgttc ctgtctcatg gactctgcaa atcacaatgc ttggcatggc ctcccagacc 180
 tgatggcaga gaagcaaaca ccagtcggag agctggggtc ctcccagccc tcttggccct 240
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 tgnccactgc tttttatggc tcatttacia acccaaattg ganggacagc aggagctgcc 480
 cataataccn gtaaagttag aaccnagnta actagnctaa cagccgatta tgtngggcaa 540
 nccact 546

<210> 6461

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6461

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 ggggatggac cccatggctg gggtagtacc atgactggag gcgggggagg caaccagagg 180
 cctgctgctt tggggaggtg cattccccca accatgtccc gacacctctg gagttcaggc 240
 aaggaccttc cagtcctact tgcctgcat cttctcaagg ataggcacia tcatgtcaaa 300
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 catattggaa gaggtcagca aagggtacct tccgtgtacc aatttcaca gaagcncttg 480
 aaaacttcac atgtctnctt gaacctttgt tngggtnnta agcttttttg gcaaacttng 540
 ggggcttccc angcagntcc ttaattc 567

<210> 6462

<211> 538

<212> DNA

<213> Homo sapiens

<400> 6462

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gcaacctccg cctccctggg ttcaagcaat tctcttgcc cagcctccca agtagctggg 120
attacaggca tgcaccacca catccggcca attttgtatt ttcagtaggg acagaatttc 180
tccatgttgg tcaggctggg ctcgagctcc tgacctcaag tgatctgcct gcctcagcct 240
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taacctaacg ctggcacatc ctggccnatt gctcaaatg caatnaagg caactaaatg 480
gaaaagaata caggaagacc catttggng gacacttggt gaaaacacan ccgttnna 538

<210> 6463

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6463

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gatcttggct cactgcaagc tctgcctcct gggttcatgc cattctcctg cctcagcctc 120
ccaagtagct gggactacag gcacctgcca ccacaccagg ctaattttgt ttttgtattt 180
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tccaccaata cagtgaata ccacgaggtc atgaaaatat tagtgaaaga tatgaatatt 420
tgtgatataa aattaaataa aatgtgaaag acaaaattat gtgtaaacta caattgcact 480
atttttacia ggnaccccat gaggattaag acnccgaaga tccatgcaaa aaaaaaanta 540

. cttggttaaa tggnggaaac cgggaatttt tnttt

575

<210> 6464

<211> 581

<212> DNA

<213> Homo sapiens

<400> 6464

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agagaagaaa aggcagtgtg accacagaag cagaaactgg agcggtagga agagaaaaag 180
aacagactct cccctacagc ctccaaggt ggcactaccc ctactgccat ctcaatttca 240
gacttctggc ctctgaact gtgcagaata aatttctcgt tttatgtcac caaatttggg 300
gtactttgtt acagcagcct aagaaactac tacatcactg aaatacaggc tttattcacc 360
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aggaaaatgt tcaattctgt gacacaggaa ctaaaagctg ttcccgttag gaagtggcag 480
aatgtacaga gacaggctac ttgcttttgc cacaagttcc aggnntnact tgganccttt 540
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<210> 6465

<211> 559

<212> DNA

<213> Homo sapiens

<400> 6465

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ctaatttttt tatttttttg tagagacggg gtttcacat gttggccagg ctggtctcga 180
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ccaatcctat ttttttaaaa tgctgtccat taatgcattc tgacttcttg cttgaaaacc 300
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 atgaagtaaa ttgaagtatt agcattagna ttttccatta cattttggaa tccgctattt 420
 tgatgtattc acgacggtta aaataattta acatgcttaa tgnatggatt aacttgggca 480
 attncatttt naaaatataa atggaataac gnatctgant ctaaggtaga catgtgttac 540
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<210> 6466

<211> 575

<212> DNA

<213> Homo sapiens

<400> 6466

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 ataaggactc atgtaaagca gtcatacncc attatcatta aaacccatat ggnaaaatac 180
 atacacagtc caacaaaagg ctaatacata gtaaagccta agcatactac tatgtaatat 240
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 agaattctgn gatgtccagt agaagtatgt aataaaaaca ttgcatatgg ttctaggggg 480
 gagggcttta gcaattggtt actggagtna aatgcaacnt taatctttnn aaatccagaa 540
 ccgaaggggg tttcttcttt tggccaattg ggaaa 575

<210> 6467

<211> 579

<212> DNA

<213> Homo sapiens

<400> 6467

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gtggaaaata atttaaaaaa ttaatttagt aaaatgcctg gagcagtaag taacaattat 120
taacaatata acaatgaagc tgtctgtact ttcatTTaac aacacactta aggcaaatgt 180
tgaattaata taaaaataat atgtggtaaa ctgatacttg acatgataca ataaaattaa 240
ttttcacgtt gaagacctag ttatgacaac atctctacat gccttctaaa tacctaattt 300
ctcagttgtg cagagcatag ctactatgg cctaataaga tgtcaatcag aatatccaga 360
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ctaattctga tcttaaagat gctatcattg gtantctaaa attcatgcng gtcttaaaag 540
ggccaaatgc ttatccggga ggtttaccct aattanccc 579

<210> 6468

<211> 576

<212> DNA

<213> Homo sapiens

<400> 6468

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agagacgtgt gctagcacac ctggcttata ttttattttg tgtagagaca gggTcttgct 180
atgtggccca gggtaatctc aaactccttg gttcaagtga tcctcttgcc tcagcctccc 240
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cacgtaggca gcccaaagat ctgcctcgtg gatcactatc ttgggatgta tggttgtatt 360
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atttagactt aacaggtggg tttctatcaa ggggnTTtac catcctaaaa ttataagttt 540
tccaattatg cccnattgga angtacnttc ccagcn 576

<210> 6469

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6469

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gtttt 545
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<210> 6470

<211> 497

<212> DNA

<213> Homo sapiens

<400> 6470

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ctttccaaga agtcagaggt cagaaagctg gtaaccgtcg taaaagacc cgtnttgaca 420
gcatgtgtag anctgnttct tccatggggn taccttgga canggtcaca agcagncccc 480
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<210> 6471

<211> 510

<212> DNA

<213> Homo sapiens

<400> 6471

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<210> 6472

<211> 580

<212> DNA

<213> Homo sapiens

<400> 6472

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gaccctgtcc ctgcatcttc agtcgtctct actgccacat gccctgtcca caccaggatg 180

acccctcccc accccagccc tatgactctg gaaagctctt cagcacacat aacaggatcc 240
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 aaggggaagt gtggaggtgc caggaactat gaacaatgag caaaacatgt cttgccacca 480
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<210> 6473

<211> 604

<212> DNA

<213> Homo sapiens

<400> 6473

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 caacacattc tatcagtaaa atttataata aacgtatgca cacacaaaca cacaccctg 420
 ttccacccca caccctctt cacaagttgg ttgttaaaca tttcctagca cactaccaat 480
 tccctacatt tgccactatt attggtatta tcattaataa ataaactgna taatggttaa 540
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<210> 6474

<211> 600

<212> DNA

<213> Homo sapiens

<400> 6474

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ccatgctgcc caggctggtc tcaaattcct ggcctcaagt gatcctcctg cctcagcctc 240
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caattaaaga atgacagaga tgatttgtga actcangctg gcttgaccct aaaccctggg 540
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<210> 6475

<211> 577

<212> DNA

<213> Homo sapiens

<400> 6475

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aacctccaa caggccctgg tgtgagttag tctctctct gtgttcatgc attctcaatg 180
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tgtgcatgg tggtttgctg caccattac cacattttct ttatccagng tatcattgat 480
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<211> 572

<212> DNA

<213> Homo sapiens

<400> 6476

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<211> 598

<212> DNA

<213> Homo sapiens

<400> 6477

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<210> 6478

<211> 354

<212> DNA

<213> Homo sapiens

<400> 6478

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<211> 589

<212> DNA

<213> Homo sapiens

<400> 6479

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<211> 586

<212> DNA

<213> Homo sapiens

<400> 6480

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<210> 6481

<211> 588

<212> DNA

<213> Homo sapiens

<400> 6481

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<210> 6482

<211> 537

<212> DNA

<213> Homo sapiens

<400> 6482

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 agaaggaagg gcttacgcaa aggcncccag cgcgccagaa gangggtgtc ttttccgtgc 480
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<210> 6483

<211> 591

<212> DNA

<213> Homo sapiens

<400> 6483

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<210> 6484

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6484

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<210> 6485

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6485

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caacataact ccaatcatat ctatcacact gatgggagga aaaatgacaa ctacccaaag 480
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<210> 6486

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6486

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<210> 6487

<211> 618

<212> DNA

<213> Homo sapiens

<400> 6487

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<210> 6488

<211> 617

<212> DNA

<213> Homo sapiens

<400> 6488

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<210> 6489

<211> 617

<212> DNA

<213> Homo sapiens

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gcaggtggga tttgtccatg tatatgcctc attgtgttca aggagctcca aggtgatggg  300
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<210> 6490

<211> 612

<212> DNA

<213> Homo sapiens

<400> 6490

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<210> 6491

<211> 608

<212> DNA

<213> Homo sapiens

<400> 6491

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<211> 553

<212> DNA

<213> Homo sapiens

<400> 6492

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<211> 556

<212> DNA

<213> Homo sapiens

<400> 6493

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<212> DNA

<213> Homo sapiens

<400> 6494

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<211> 558

<212> DNA

<213> Homo sapiens

<400> 6495

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<211> 556

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

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<210> 6498

<211> 567

<212> DNA

<213> Homo sapiens

<400> 6498

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gttctgaact ctaagcggaa cactggcagt gccaggcgac tctagatcag atggcagaac   360
agaacaaaca gaaaaccatg aaaactgggg tgagaactga atagaacat gctcccaagt   420
actataggga gtttnggctt ctagtcaaat nccagaaatt gagaagtcag taaaatctac   480
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<210> 6499

<211> 555

<212> DNA

<213> Homo sapiens

<400> 6499

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aattctatac ccattattca aggtttaatg caaatctcgc ctcacatg aaattttctt   240
attttcctgg tccaaattga actcctcttt ctctaagctt gtacagactg tattctgtcc   300
aaataaatta ccaataaatt aggtattgct ttatattact gattaattca tccatagata   360
ttattagatt ttaatcctag tctctcctac gagatagtta agattcttc acagctccag   420

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tccatctccc atgcaaatta aattaacaaa tgcatacagt atatacatct gttcacttga 480
aatcttttgg aggccaagta gtcaacaaan ggaaggcata ttacatagtt tgactatgca 540
ctccgcaaaa caaat 555

<210> 6500

<211> 554

<212> DNA

<213> Homo sapiens

<400> 6500

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agggacggcg ggcggggggcc gggccagcaa gcccagacagt cacttttgcc aatacctggg 480
tggccagcca ggcngtgcac accttcgang gtncctctttt ttgntgnggg aaaatttacc 540
nggccttggt ggtt 554

<210> 6501

<211> 545

<212> DNA

<213> Homo sapiens

<400> 6501

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caacctctgc ctccgggtt caggcgattc tctgtctca gcctcccag tagctggaat 120

cacaggcgcc cgccaccatg cccagctaatt tttcgcatTT ttagtagaga cgggggtttca 180
 ccatgttggc caggctgac tcgaactcct gacctcaggt gatccacccg cctcggcctc 240
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 gagcaatcta aatgatcaat aatgcccctt gaatgtgtca gtatcaataa gtctctgatt 360
 acacgcacag agaataaaaa gtgtaacagg ctttagtgaa caagggttcc aggcaatttc 420
 tatgaaggcc caatacctac aataacctag taacagcaga tccaatgttc acagaaaaac 480
 nattaaataa ttcccactgn actggggaaa cttggcttaa cagcaaacct tctnccaatt 540
 gtttt 545

<210> 6502

<211> 412

<212> DNA

<213> Homo sapiens

<400> 6502

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 gttgttttaa aattttaata cctggctctc ttactagctt tttgagttga acactcagtg 120
 taactaattt ttggccttct tgattttata tcaatatatt catggctttt aactgctccc 180
 tagatccgtt tcaataggta aggctctaag cattgaattt tcttccttct agcttctaag 240
 agtagttttc tattcccaa cacaatgcat tctacttgtc ttctaactct tgatttcttt 300
 ctttttttgg cattgtggtc agagaatatt tgtataaatg attatgatta tttggatttc 360
 aaaaagattt acttaaaaat ccttgtggac aggtacataa ctacatttta tg 412

<210> 6503

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6503

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 gttttttaat gatgaaatcc aattgtaatt aatctatagg gaaagcaatt caagaaaatt 180
 cgggatactt aaatgttcag cctttttaga tgtgcaagag gactcctatg agacactttt 240
 cagtatatga aatattacta taacccttga atgatttaca tgcaaggatt tattttattt 300
 gggacagact aaattgcctg aagataatgc catggcttct cccagtgatc cctgagtttc 360
 ttttcttctt cttttttttt ccccatagtt tactgctgtg cttaggttct gattgatgac 420
 acactcacgt aaggcactta ttacaaggt atggacttaa aacnggaatc acagcatttc 480
 tgcgaaagcc cttaaactnt tcactatgg ttggctgggt cangacnttt taaataggca 540
 nggtcancat ggaaaattan ct 562

<210> 6504

<211> 552

<212> DNA

<213> Homo sapiens

<400> 6504

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 tctttttttt gaggcagagt ttcatcttg ttgcccaggc tgcagtgcaa tggcgcgac 180
 ttggctcacc gcaaccctg cctcctgggt tcatgagttc tcctgagtag ctgggattac 240
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 gttggtcagg ctggtctcga actcctgacc tcaggtgatc cgcctgcctc ggcctcccaa 360
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 ttattcctca gaggcagata tgaattttgg acaaagtttt ggccaatttt ggatgtaact 480
 ggactttggg gaaaggacct tcttctnca atcactttta tcaggaataa ttatttaaca 540
 aattaatcca nc 552

<210> 6505

<211> 558

<212> DNA

<213> Homo sapiens

<400> 6505

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gttctgcatg aacatctaag acaggcttct ggcctgactt tttggtggat ggtggtaaac 180
cactgcttcc acctccagcc ccacctgcag ggctaccacc actcacacca gggcctcctg 240
gagagccagt ctttttactc aacaaactgt tgaagaaatt tgccagaacg ctttcaactg 300
tagctccagc tttcatgttt ggatcaattt tttttgacct agcaggaatg ggtgacacgc 360
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gtgaggcatc cacaggcctt ccagctgcaa gttggtgggt gctttgctaa aagggactgt 480
agcttcataa gaaacacctg acatcttctg gcataaattc cttctcatgg ncaaactttc 540
gaacaggngg ntaanttt 558
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<210> 6506

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6506

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aatcaaactc atcccagccc agggaaacaca gccactcca gggccaaacc tgcagagtcc 180
aagagtgaca gccagtcgtt ctggctccag gcaccacttc tccctgagcc cccaactccc 240
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gcctttgcc a cggtgcgga aggagcccgt tggccagagt gtgtggacat caacgttacg 360
cgaatggctg tgcgtgccaa tggctggtat aaggaacttt taaagtcctc aggttaaatg 420
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aaaaactctt gtggagctct tcactgcacg atcttggat gtttctacc ctggttaagg 480
tctacctttt cccatttccc cacatttctt tacatcgctt ttatttactt caattgcaaa 540
tcccganctg gtttggtant tt 562

<210> 6507

<211> 562

<212> DNA

<213> Homo sapiens

<400> 6507

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attatcctgc ctcagcctcc tgagtagctg ggagtacagg cacactccat cagccccagc 180
taatttttgt tttagtagag acagggtttc accatgttaa cccgactggt ctctaactcc 240
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ataataagaa cgatgatgat tcaacccaac atgaaagaag gttggttngg atttccattt 480
taccacagca cttnaaggct ggattaaaaa agggctgctt ttnaagggtg gnaccctttt 540
aaaggggggn ttncaatcn aa 562

<210> 6508

<211> 563

<212> DNA

<213> Homo sapiens

<400> 6508

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accattaatt gttactggag aaaccctcct tctgggggtt ttgcacgatt attcataaga 180
 aggtggaaag aagtgttagt gtaagcatgt tttgagtgtt cttctgggtg cacatgtgca 240
 ctaactgtac atatttgtgc atacattgca tgtctcgtta gcatcttaag tctccaccta 300
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 atgcacatgt tctctagaag taaaagtccc tactgaagat agcgggtttc aaacgacccc 420
 aagtgtcca catcttaa atgtcgctnca caaagctgga cactatctgc tncgtaggga 480
 tccggtccca tttgggggtt tgagacctgc aagtcaggag tgacttgaga tganaccgtg 540
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<210> 6509

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6509

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 tccatcctta gatcccttga agagaccatt tagttaagac taccaacagg tgacaccctg 180
 acctccttac caaccttgcc ttttagaggt gaccagagac ctgtgctttt ccaaagtact 240
 gttatacgtg taattagtat aatatcaatg tggggaaact ctacctttgg attttgagga 300
 ctctgctttt cttgaaacct tctgggttag agactgttta ttcatatgca cctcagggaac 360
 ttgaggccaa gatgaagttc actgtttcct agtcctttgc ttgntctcct ggccattatg 420
 tttccacctt cattcaaaag cttctctttt ggaagctgnt tataaccag caacaccatc 480
 aactcactgg gctactggcc tcaatcccat ttncagcac tttccctttt catgcaaatn 540
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<210> 6510

<211> 496

<212> DNA

<213> Homo sapiens

<400> 6510

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cccaggagaa tgagggtgcc ctggctggtc tgccctcact ccaacccgca gacctgcgga 180
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ctaccacta tgattaagct ctcaaaccga gtacaccatg gtgtgtccac gggtgagtct 360
acaggagggc agatganggc agggctgtct ggctaaccaa gtgtcactta gggaacacct 420
gtcggatgga ngcgtnaggt gtcagatgct gagcccatcg ntggtcnaac tngngaaggt 480
ggggaanggt ctggnt 496

<210> 6511

<211> 542

<212> DNA

<213> Homo sapiens

<400> 6511

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tcttttcctg acctaatata tcccttaaga tattaggtcc cctaaagtcc aaaaatgaca 180
taatttggtc tatttggtat aaaaattaga caggagcat tgtcaaataat gaaatgatgt 240
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ttattgngtg ccacagaggt acacatttgt caattgggtc ttggattatg gctgncctaa 420
aattttgga tccatggaca atggtggctt ggttgggcct tttanggggt ctatatcact 480
atgggactna acaggggtct taaagccagt tctgaacctt gcaatgggcc ttgaataagg 540
gg 542

<210> 6512

<211> 528

<212> DNA

<213> Homo sapiens

<400> 6512

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tacaggcatg taccaccatg cctggctaata tttgtgtgtg tgtgtgtgtg tgtgtgtgtg  180
tgtgtgtgtg tgtgcgcgcg cgcgcacgcg cgtttgtgtt ttagtagaga caaggtttcg  240
ccatgttagc caggctgggc tggaaactcct tacctcaggt gatctgcccc ccttcggcct  300
cccaaagtgc taaaattaca ggggtgagcc actgtgcccc gccggattat catttcaaata  360
gtcattttcc agatggaact atgttaattt ggcatgtcaa caaacaagac cataagtaga  420
tccatcatgt tggaggattt taatgacatt taggatattc ttgccacaat aacatgcann  480
cagggcattt nctacanggn tctattatgg cnatgaataa actctgna                    528
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<210> 6513

<211> 553

<212> DNA

<213> Homo sapiens

<400> 6513

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aaattccaaa agaaacataa aaaaaaaaaa ccaataattc ccccaaaaaa caaacccaaa  120
gtctggcttt tccttccctc aagattgtct gggtgaggcc ttggtttccc ttgaaggctt  180
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gcctctccct cttctctccc taacaaacac ttctctatcc tgggggggtga gtacagtaca  300
cttggcgggg tgggcggggg gtgtgctggg gactgggagg ccggtgaagc cggtgctaga  360
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cactataatc taacaggaaa taaaaaataa tattctgcac gtcagaatgt ttttttttta 420
 taattcatag ctatittttca cagtttttaa aagttatata tatattnaaa tatattaacc 480
 ttatataatnt aattaaaagg tgacttcnnt aaaggntatg atcagggccg ggccagtnnt 540
 tggacaataa acn 553

<210> 6514

<211> 500

<212> DNA

<213> Homo sapiens

<400> 6514

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<210> 6515

<211> 551

<212> DNA

<213> Homo sapiens

<400> 6515

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actaatgata gaaaataact aatgaaaaa aatcagagac tggtttccaa ttgattgaca 180
 cctagatctg tcagcctctc tttaaagaaag gggaaggaga aaaaaaatct catcatggaa 240
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 taaacgagag gaaacataaa tgccatctca aatactaaag cgatgtagtg tagcatgagt 360
 gactcaatgc aaattcacag aggaaaagaa gttcggctta ngaagtagga caataaatac 420
 aaatatttca tcttatttaa tgggtcatga cttcagtgaa actccctttg caatgcaata 480
 aattttaaac accaaccttt attcttaacg gttttagcca ccgnttttgn gagagaaaac 540
 tccttccaac a 551

<210> 6516

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6516

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 acaggcgccc gccaccacgc caggctaatt ttttgtattt ttagtagaga cagggttca 180
 tcatattagc caggatggtc tcgatctcct gacattgtga tctgcccgcc tcggcctccc 240
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 cactaactgt gaacatttga gcaaattatt taccctctct cggcctcagc tttcacatct 420
 ataaaatgag agcacaaatt attcacagct tttgaaaagt tactgntgag aatattacng 480
 tgnatttgtn aaccagctgc ttatgccaaa agcctggcac aatagtaggn ccntaaacaa 540
 nggttggg 548

<210> 6517

<211> 550

<212> DNA

<213> Homo sapiens

<400> 6517

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caccaggcctt gaaggtaaatt ttaatggggg agtgggtacc tccatgccat tcaccttaaa 180
accagtggaa gtgacttctc aatcccttgt ttggaatcat ccatgctagc ctgtgcctct 240
tctggtaggg atatttgaga atttcaaca taaaagggtg tcctagactt tcttcacccc 300
caaaaaagta cccaacaagg ttagaaaaat acaagcaaag tcagtaaaat aaatacaaga 360
tgtgtccctt gggattcaac caacacacat tgtttcctag ccaaaggcag aggggtgagcc 420
accacctgga tgcttcgtct gnttactcag accctgctgn ttctttcacc ttgtggcttg 480
gatcccttca tggccaatta cccaatttgg gnacttaagg caanttatgc nntggatcaa 540
aancctttttt 550
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<210> 6518

<211> 523

<212> DNA

<213> Homo sapiens

<400> 6518

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acactttgtc agacaaatat cttaaagtttt attatgtaac ttgcagattt tcaggacgag 180
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ttatgcctct cttgagtttg atgatccaat ttttaatttaa tcatttgagt atctcttagg 300
gattcttcct ccacagtgga ggaaagtggg ctctactgaa ttcatggaa caccgccttt 360
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gggtgcattt gggttcagcta gataccaagg ctgaanagtg ccttctttnc aatgatccat 480
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<210> 6519

<211> 541

<212> DNA

<213> Homo sapiens

<400> 6519

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ggtttttttg tttttttccc aacatcttgt atctttaata acatacacia tggttaccag   60
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tcggtgtgaa aagcttgaga atgtcccagt tgggaagggtg gggtgagggg gaggagggcg  180
ttgaagaggg agaccctggc ttccccgcag tctgaacccc caaatcccct cctccacct  240
gggccccaac acaaccctc attaggaata gggaccagac agtctgtcgg actctggggc  300
tgggacgaat ctctgggtta tgatatagt tccacttaa gtgaggatcat gacataatgg  360
gggaaggaaa aaggctgaaa gaaaaggag gggcttaggg aaaaaccaa aaaccaaaca  420
atcccccttc ccttattcct gactnccaag tctnaccac cagacctggg aacgganaaa  480
ggtgtgtgtt cctggggaag gggaccttta ggnacagnan ttctgactta ctggntaccc  540
t                                                                                   541
    
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<210> 6520

<211> 548

<212> DNA

<213> Homo sapiens

<400> 6520

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ttatggggaa agggaggttc aatcaacatt agcaaatact catgcaattg atgaaatata  180
aaatggtatc agtggcttgg tgaatgtcct gtgggtaggg tgaatcaatc tactcttaaa  240
aaacatacat tttcccaatc atgcttttaa acggcatctt ttaaaaaaac aagttatata  300
    
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tacagatatac accccaaaat gaatctttta cagtctacta ctataaattt aaggcatcct 360
 gatattctgt tcttctgctg gtgaggcatt ggtttcatgg ntctctttcc aaagangata 420
 gtccagaaat ttncaataat ttncaaangg gatcagttag aggaaattta aaaaggggat 480
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 attttctn 548

<210> 6521

<211> 532

<212> DNA

<213> Homo sapiens

<400> 6521

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<211> 540

<212> DNA

<213> Homo sapiens

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<210> 6523

<211> 523

<212> DNA

<213> Homo sapiens

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<210> 6524

<211> 526

<212> DNA

<213> Homo sapiens

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<210> 6525

<211> 541

<212> DNA

<213> Homo sapiens

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<211> 470

<212> DNA

<213> Homo sapiens

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<211> 564

<212> DNA

<213> Homo sapiens

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